

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859320007-6

Kinetics of the photolysis of $\text{C}_6\text{H}_5\text{NO}_2$

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859320007-6"

VELIKOVICH, L., kand. istoricheskikh nauk

Religion and war. Komm. Vooruzh. Sil 4 no.15:15-20 Ag '64.
(MIRA 17:10)

VELIKOVICH, L.I.

A book on the Vatican ("Vatican; religion, finance and politics" by I. Lavretskii. Reviewed by L.I. Velikovich). Mauka i zhizn' 25 no.1: 52 Ja '58. (MIRA 11:3)

(Catholic church)
(Lavretskii, I.)

VELIKOVSKAYA, E.M.

Structual-facies Silurian zones in the northwestern slope of
the Chingiztau. Vest. Mosk. un. Ser. 4: Geol. 20 no.3:32-36
(MIRA 18:7)
My-Je '65.

1. Kafedra istoricheskoy i regional'noy geologii Moskovskogo
universiteta.

VELIKOVSKAYA, E.M.; VEYMAR, A.B.; VERGUNOV, G.P.; APRODOV, V.A.; LYUSTIKH,
Ye.N.; LIPOVETSKIY, I.A.; ROMASHOV, A.N.; FEL'DMAN, V.I.; SAVOCHKINA,
Ye.N.; GENDLER, V.Ye.; RONENSON, B.M.; DOBROCHTOVA, Ye.S.;
LYUBIMOVA, L.V.; KHMARA, A.Ya.; VESELOVSKAYA, M.M.; KUDRIN, L.N.;
CHERNIKOV, O.A.; SOROKIN, V.S.; IL'IN, A.N.; FLOROVSKAYA, V.N.;
ZEZIN, R.B.; TEPLITSKAYA, T.A.; BRUSILOVSKIY, S.A.; KISSIN, I.G.;
CHIZHOVA, N.I.; PAVLOVA, O.P.; SHUTOV, Yu.I.

Supplements. Biul. MOIP. Otd. geol. 39 no.4:155 Jl-Ag '64.
(MIRA 17:10)

30(12)

SOV/25-59-4-20/44

AUTHOR: Velikovich, L.N., Candidate of Historical Sciences

TITLE: Advocates of Atomic Armament (Propovedniki atomnogo vooruzheniya)

PERIODICAL: Nauka i zhizn', 1959, Nr 4, pp 45-49 (USSR)

ABSTRACT: This is an anti-religious article criticizing the favorable attitude of the Church in capitalist countries towards atomic armament. There are 5 drawings.

Card 1/1

VELIKOVSKAYA, M.M.; BAN'KOVSKIY, A.I.

Method for a quantitative determination of nicotinic acid in
"KN" tablets. Trudy VILAR no. 11:288-295 '59. (MIRA 14:2)
(NICOTINIC ACID)

VELIKOVSKAYA, N.A.

TSETLIN, B.L.; GAVRILOV, V.I.; VELIKOVSKAYA, N.A.; KOCHKIN, V.V.

Device for studying thermomechanical characteristics of polymers.
Zav.lab. 22 no.3:352-355 '56. (MIRA 10:5)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR.
(Polymers)

BIRYUKOVA, Zinaida Ivanovna; VELIKOVSKAYA, P.A., red.; MANINA, M.P., tekhn.
red.

[Higher nervous activity in athletes; study of the typological
characteristics of the nervous system] Vysshaia nervnaia deiatel'-
nost' sportsmenov; issledovanie tipologicheskikh osobennostei
nervnoi sistemy. Moskva, Gos. izd-vo "Fizkul'tura i sport," 1961.
290 p. (MIRA 14:10)

(NERVOUS SYSTEM)

(ATHLETES)

LETUNOV, Serafim Petrovich, prof.; MOTYLYANSKAYA, Rakhil' Yefimovna;
GRAYEVSKAYA, Nina Danilovna; VELIKOVSKAYA, P.A., red.;
SHPEKTOROVA, Ye.I., tekhn.red.

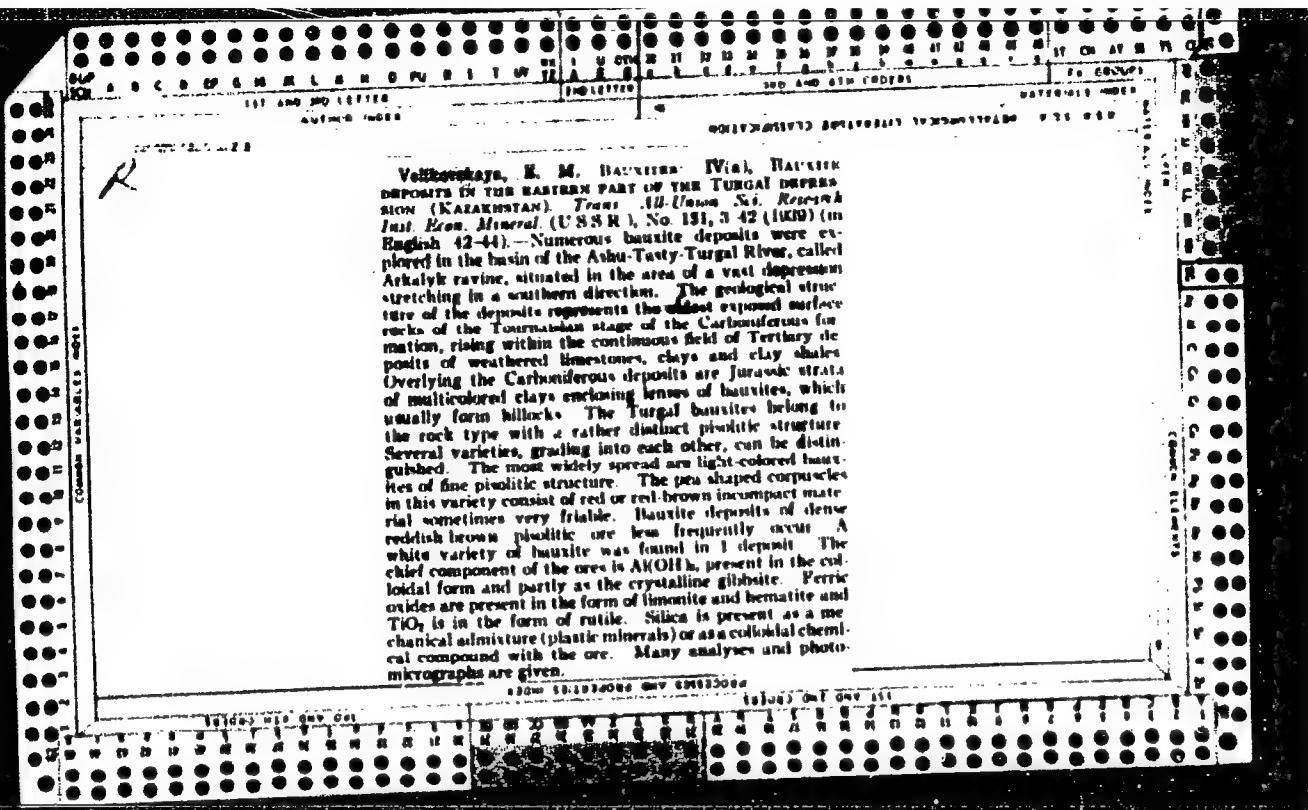
[Methods for the observation of athletes in connection with
the training of doctors; a textbook for doctors] Metodika
vrachebno-pedagogicheskikh nabliudeniiz za sportsmenami;
posobie dlia vrachei. Pod obshchei red. S.P.Letunova. Moskva,
Izd-vo "Fizkul'tura i sport," 1962. 399 p.

(MIRA 15:5)

(SPORTS MEDICINE)

of

Volkovskaya, E. M. HAUTEITE OF THE SOUTHERN PART OF KAZAKHSTAN Trans. All Union Sci. Research Inst. Non-Metal. No 111, 3 (62) (1931) (in English 22). An investigation was made of 12 hauteite deposits within a radius of 150 to 200 km. of the city of Akmolinsk. The deposits are of sedimentary origin. The hauteite beds are among continental, red colored, argillo-silicate sediments of the Urals and the Muguljar steppes. Thick new of beds varies even in the same deposits between 1 and 6 m. Chemical composition of the hauteite veins is 10 to 0.3% Al_2O_3 and 2 to 4% SiO_2 . The amount of FeO varies from 7 to 10% in the yellow veins and up to 20% in the red ones. The Al_2O_3 is in the form of AlOOH , chiefly in colloidal and partly in the crystalline state.



VELIKOVSKAYA, YE.M.

USER/Geology

Card 1/1 Date: 12 - 29/67

Authors: V. VELIKOVSKAYA, Ye. M.

Title: Red color in iron pyrite and its origin

Periodical: Dok. AN SSSR 100/6, 1141-1144, Feb 21, 1955

Abstract: The discovery of red color in pyrite is explained by the presence of various

Institution:

Presented by: Academician N. M. Strakhov, November 24, 1954

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 12,
pp 23-24 (USSR) SOV/14-57-12-25518

AUTHOR: Velikovskaya, Ye. M.

TITLE: The Genesis of Some Continental Pliocene and Quater-
nary Deposits in the Zaysan Depression (O genezise
nekotorykh tipov kontinental'nykh plitsenovyykh i
chetvertichnykh otlozheniy Zaysanskoy kotloviny)

PERIODICAL: Byul. Komis. po izuch. chetvertichn. perioda, AN SSSR,
1957, Nr 21, pp 47-57

ABSTRACT: The author analyzed material which she had collected
in 1945 and in 1953 in the southeastern part of the
Zaysan depression. This analysis enabled her to de-
termine more accurately the genesis and stratigraphical
position of various Quaternary and Pliocene formations
in this region. She also showed that the deposits
which V. P. Nekhoroshev assumed to be glacial are

Card 1/2

The Genesis of Some Continental Pliocene (Cont.)

SOV/14-57-12-25518

actually of various origins and ages. The surface rocks resemble glacial formations superficially, but their physical disposition, their stratigraphical position, their interrelationship with other deposits of the Quaternary age, and also the history of formation of the Saur and Saykan Ranges lead the author to believe that these formations are of a "proluvial", flood origin. She does not consider that either the most ancient Quaternary glaciers or the more recent ones descended into the Zaysan depression. No traces of Quaternary deposits are found in the southern part of this region. A bibliography of 12 titles is included.

Card 2/2

T. R.

VELIKOVSKAYA, Ye.M.

Basic characteristics of the structure of the continental Neogene
sediments of the northern foothills in the western part of the
Caucasus. Biul. MDIP. Otd. geol. 39 no.2:52-69 Mr-Ap '64.
(MIRA 19:1)

VELIKOVSKAYA, Yevgeniya Markovna; BOGDANOV, A.A., otv. red.

[Pliocene sediments of the southwestern Altai and the
Zaysan Depression] Pliotsenovye otlozheniya Iugo-
Zapadnogo Altaia i Zaisanskoi kotloviny. Moskva, Izd-
vo Mosk. univ., 1964. 79 p. (MIRA 18:5)

VELIKOVSKAYA, Ye. M.; NAYDINA, N. N.

Some recent data on continental Upper Pliocene deposits of
the western Kuban trough. Dokl. AN SSSR 147 no.4:889-892
D '62. (MIRA 16:1)

1. Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova.
Predstavлено akademikom Yu. A. Orlovym.

(Kuban Valley—Geology, Stratigraphic)

BROD, I.O., prof., doktor geol.-miner. nauk; VARSANOF'YEVA, V.A.,
prof., doktor geol.-miner. nauk; VELIKOVSKAYA, Ye.M., prof.,
doktor geol.-miner. nauk; GORDEYEV, D.I., prof., doktor
geol.-miner. nauk; DOBROV, S.A., doktor geol.-miner. nauk
[deceased]; KOF, M.I., kand.tekhn.nauk, [deceased]; KUZHICHEVA,
Ye.I., mladshiy nauchnyy sotr.; KUZNETSOV, Ye.A., prof., doktor
geol.-miner. nauk; LEONOV, G.P., prof., doktor geol.-miner. nauk;
MENNER, V.V., dotsent, doktor geol.-miner. nauk; NAZARENKO, I.I.,
kand. sel'khoz.nauk; POBEDIMSKAYA, Ye.A., assistent; POPOV, S.P.,
prof., doktor geol.-miner. nauk; SMIRNOV, V.I.; SMIRNOV, N.N.,
prof., doktor geol.-miner. nauk; SMOLYANINOV, N.A., prof.,
doktor geol.-miner. nauk [deceased]; FENIKSOVA, V.V., dotsent,
kand.geol.-miner. nauk; SHAFRANOVSKIY, I.I., prof., doktor geol.-
miner. nauk; Prinimali uchastiye: BARSANOV, G.P., prof.,
doktor geol.-miner. nauk; BOKIY, G.B.; CORSHKOV, G.P., prof.,
doktor geol.-miner. nauk; KUDRYAVTSEV, V.A., prof., doktor
geogr. nauk; MARKOV, P.N., dotsent, kand.geol.-miner. nauk;
MOROZOV, S.S., prof., doktor geol.-miner. nauk; ORLOV, Yu.A.,
akademik; SERGEYEV, Ye.M., prof., doktor geol.-miner. nauk;
TVALCHRELIDZE, A.A.; GEORGIYEVA, G.I., tekhn. red.

(Continued on next card)

BROD, I.O.— (continued) Card 2.

[History of geology at Moscow University] Istorija geologicheskikh nauk v Moskovskom universitete. Pod red. D.I.Gordeeva. Moskva, Izd-vo Mosk. univ., 1962. 351 p. (MIRA 15:7)

1. Moscow. Universitet. Geologicheskiy fakul'tet. 2. Chlen-korrespondent Akademii nauk SSSR (for Smirnov). 3. Chlen-korrespondent Sibirskogo otdeleniya Akademii nauk SSSR (for Bokiy). 4. Dejstvitel'nyy chlen Akademii nauk Gruzinskoy SSR (for Tvalchrelidze).

(Moscow University) (Geology—Study and teaching)

VELIKOVSKAYA, Ye.M.; IZRAILEV, V.M.

Structure and origin of the North-Jurassic depression between
the valleys of the Kuban-Bolshaya Laba Rivers. Trudy VAGT
no.6:128-139 '60. (MIRA 14:3)
(Kuban Valley--Geology)

LEONOV, Georgiy Pavlovich; VELIKOVSKAYA, Ye.M., red.

[Basic problems of the regional stratigraphy of Paleogene sediments in the Russian Platform] Osnovnye voprosy regional'noi stratigrafii paleogenovykh otlozhenii Russkoi plity. Moskva, Izd-vo Mosk. univ., 1961. 552 p. diagrmas. (MIRA 14:8)
(Russian Platform--Geology, Stratigraphic)

VELIKOVSKAYA, Ye.M.; KOZHEVNIKOV, A.V.; FOMIN, V.I.

More about the "moraine" near Tsebel'da. Vest. Mosk. un. Ser. 4;
Geol. 15 no.4;14-20 Jl-Ag '60. (MIRA 13:10)

1. Kafedra istoricheskoy geologii Moskovskogo universiteta.
(Tsebel'da region--Moraines)

VELIKOVSKAYA, Ye.M.; STEKLOV, A.A.

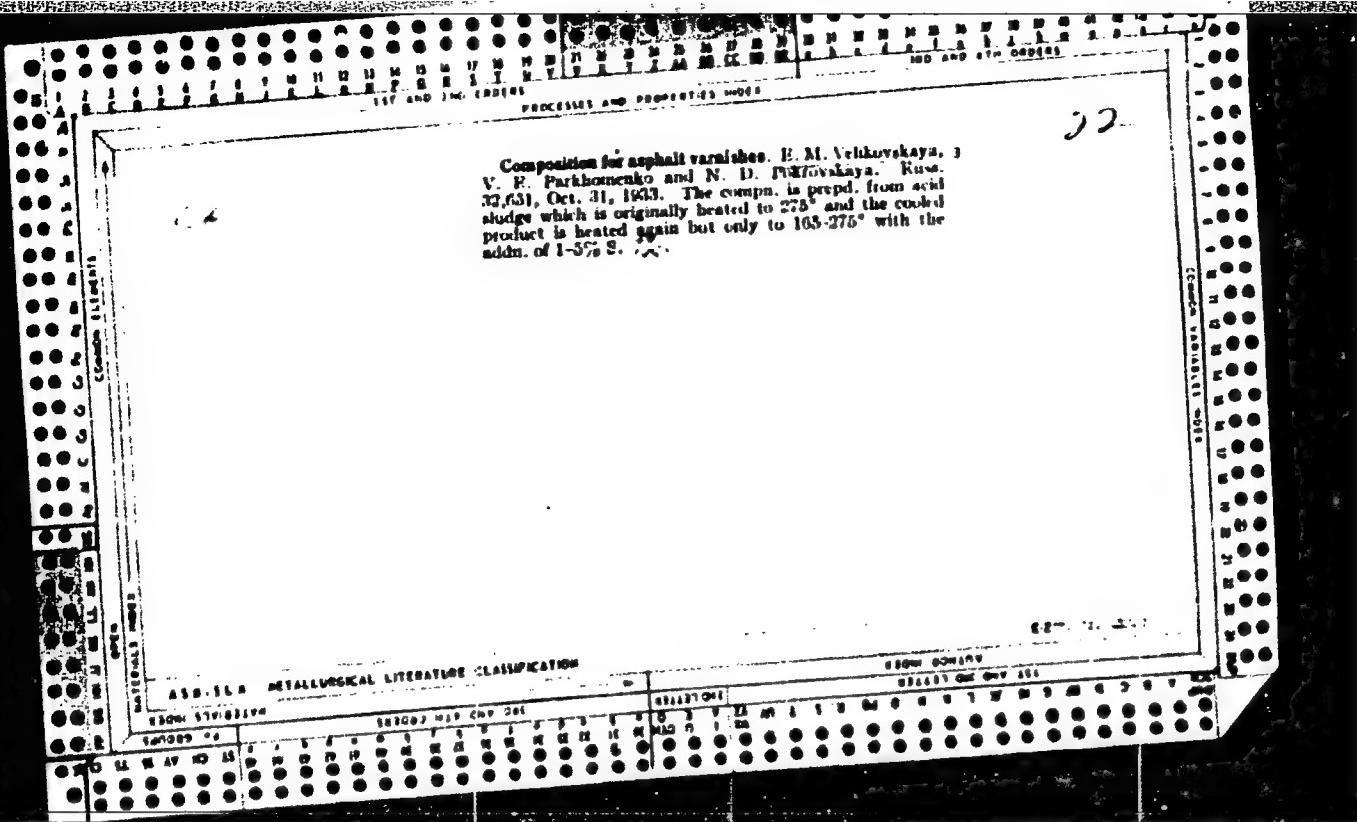
Age and origin of conglomerates in Martano Mountain (Northern Caucasus). Izv. vys. ucheb. zav.; geol. i razv. i razv. 3
no.7:127-129 Jl '60. (MIRA 13:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Martano Mountain--Conglomerate)

VELIKOVSKAYA, Ye.M.

Pliocene glaciation of the Ossetian plain. Izv.vys.ucheb.
zav.; geol. i razv. 2 no.9:45-54 S '59.
(MIRA 13:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Ossetia—Glacial epoch)

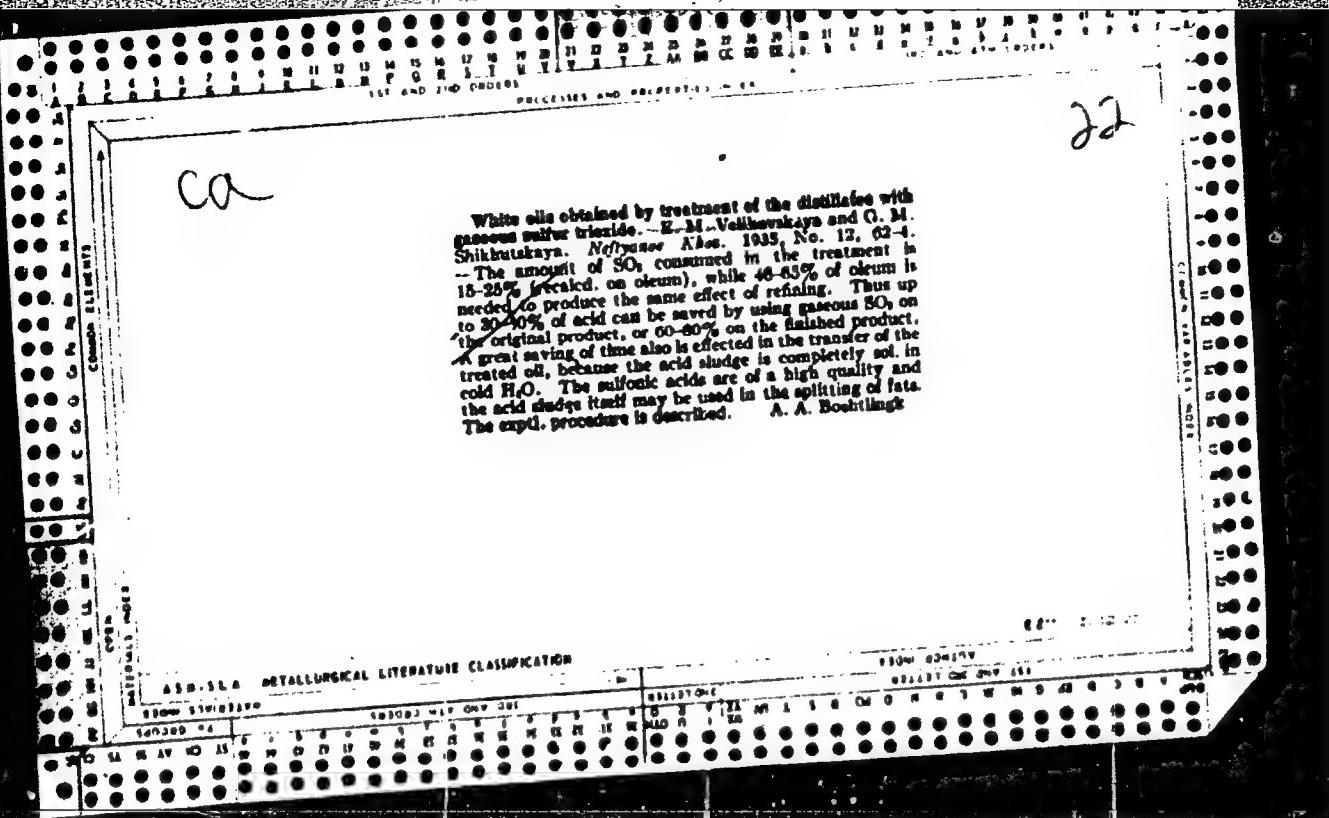


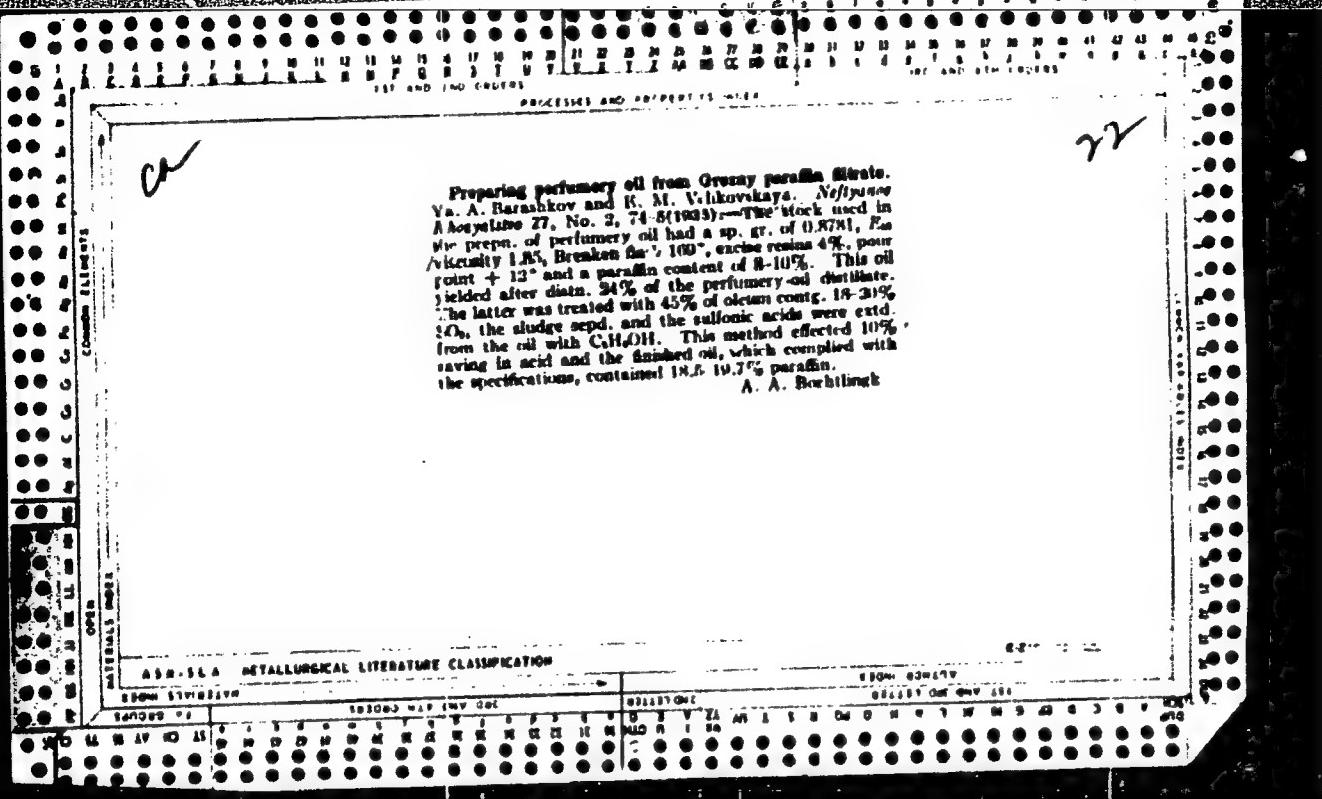
Utilisation of waste products of the petroleum industry. E. V'ykhovskaya. Noj 6, No. 10, 14-17 (1953).—**Axial greases.**—According to the method developed by Chernozyma, the oil obtained from spindle-oil or machine-oil sludge in the recovery of H_2SO_4 , is heated to 300° and oxidised by blowing with air to rosinification. The product is heated to 170°, diluted with mineral oil to the required viscosity, and then treated with 1% of NaOH at 25° Bé. This grease has an Ubbelohde softening point of 97°. Schneiders' wax substitute is prepd. from lubricating-oil bottoms stripped of fractions b. below 300° and blown with air till white. This product is then mixed with 20% of heavy-distillate alkali ash; or oil sepd. from dried sludge can be used after blowing with air. Binder for bricks can also be prepd. from oil sludge. Binder for antiseptics and fungicidal emulsions can be prepd. from kerosene, heavy kerosene and transformer-oil alkali sludges with the addition of creosol or fuel oil (5%). The base can consist of kerosene, spindle or machine oil (80%). Various formulas are tabulated. The toxicity of these emulsions can be increased by the addition of aromatics and unsatd. compds., which, however, should be added in small quantities because of their injurious effect on the foliage of the plant. **Drying-oil substitutes.**—A good putty was prepd. from 75% machine-oil distillate, 25% polymers and dry ground chalk. Up to 50% of the chalk can be replaced by burned pyrite, while the oil can be replaced by distillates recovered in the process of asphalt. According to the synthesis developed by Brinberg (C. A. 27, 4606) an ester having an unsatd. chain (method not given) dried in the same way as linseed oil

but forms a skin of a higher adhesion than that of linseed oil. It can be used in paint and is suitable for preparing linoleum, oil cloth and putties. These esters are prepared from mineral oils and unsalted, cracked-petroleum products. **Wood-oil subesters.**—A wood-oil substitute can be prepared from oil collected in oil traps (45%), naphthalene and sulfuric acid (10%), and black turpentine, and red or wood tar (18%). **Paints from burned pyrites.**—The burned pyrites is freed from soil sulfates by washing with hot H₂O, followed by drying and grinding. The product can be used for preparing enamel paint. A. A. Burkhingle

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Ch
22
White oil. E. M. Velikovskaya. Trudy Vserossijskogo Nauchno-Tekhnicheskogo Konferentsii po Protsessam i Priborostroyeniyu Smazochnykh Materialov 1936, 161-76; cf. C. A. 31, 27109. — The production of high-quality oil and toilet soap is not recommended because of lack of reagents and time. Oils should be treated with SO_2 gas because this method is much cheaper and requires less time than treatment with 100% H_2SO_4 . Sulfonic acids should be oxidized with $aq. KMnO_4$ and then treated with clays in two steps. Sulfonic acids, produced by the H_2SO_4 treatment, should be utilized in two ways: for splitting fats and for the second treatment of oils.

A. A. Bulgorny

ASH-354 METALLURGICAL LITERATURE CLASSIFICATION

Rapid determination of sulfur in petroleum products.
E. M. Yelikovskaya and I. S. Zelikov. Neftegazov. Akad.
18, No. 8, 827 (1937); Chemie & Industrie 39, 1008.
The method is based on combustion and iodometric
titration of the SO₂ formed. The tube contg. the sample
is heated by 2 elec. furnaces placed side by side; the first
is gradually heated from 200° to 700° to evap. the sample
and the second is regulated to a temp. of 800-1200° from
the start, and the vapors are burned in it. The combus-
tion gases are passed through a cylinder contg. H₂O₂ and
starch, above which is mounted a buret with 0.02 N I₂.
The SO₂ absorbed is titrated as combustion is carried on.
A. Denison Cottrell

Lubricating greases for automobile transmissions, suit
able for use under normal and under high pressures. I.
M. Velikovskaya and V. P. Nikolskaya. Neftegaz
AkhT, No. 12, 2, 44-1951; Chemie & Industrie 40,
25. A discussion of the qualities required of lubricating
greases for this use. A. Dupinou-Couture

CA

Lubricants for gear-and-worm drives. - K. M. Veltman.
Soviet. Neftegaz Akad. 1938, No. 2, 19-23. For gear-
and-worm drives a mixture of highly refined mineral oils
and vegetable or animal fats is best. The following
lubricants were chosen for tests to be carried out in the
near future: mineral oil, 1-5% vegetable oils, 10%
mineral oil + 5% American graphite oil, Imperial 2,
and the test carbon oil. Five references.

ABD-SLA METALLURGICAL LITERATURE CLASSIFICATION

Results of tests in the lubrication of worm drives of automobiles and trolley busses. K. M. Vilkovskaya and V. P. Nikol'skaya. *Neftegaz. Khim.*, No. 1, 1951.
The best lubricants for the above parts are mineral oils compounded with castor oil or animal fats. Tests carried out in the laboratory showed that the following compound lubricant is best: bright stock 80% and castor oil 15% and oleic acid 1%. A great variety of formulates were tried.

New lubricating oils for worm gears. B. M. Velkamp, L. A. Kays, and R. V. Murzin. *Alembicar*, 1937, 10(1), No. 13-9, 22-4.—The oils were prepd. by adding 3-10% Florite (heat-treated castor oil) to the mineral oil (bright stocks) and then tested on troley box drives (June-August). Owing to the high η and low pour point of the Florite the wear was reduced. B. J. Kamph.

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VELIKOVSKAYA, Ye.M.; VELIKOVSKIY, D.S.; PEGANOV, A.A.; DOBRYAKOVA, L.I.:
KUROCHKINA, Z.V.; LISOVSKIY, I.I.

Synthetic drying oils. Patent U.S.S.R. 77,050, Dec. 31, 1949.
(CA 47 no.19:10244 '53)

VELIKOVSKAYA, Ye.M.

Pliocene red beds and their development in the U.S.S.R., China,
and adjacent countries. [Uch.zap.] Mosk.un. no.192:89-112 '61.
(MIRA 1:7)

(Rocks, Sedimentary)

VELIKOVSKAYA, Ye.M.; KOZHEVNIKOV, A.V.

Origin of morainelike beds in valleys of the Terek, Gisel'don,
and Uruk Rivers. Vest.Mosk.un.Ser. biol., pochv., geol., goeg.
14 no.4:125-134 '59. (MIRA 13:6)

1. Kafedra istoricheskoy i regional'noy geologii Moskovskogo
universiteta.
(Terek Valley--Alluvium)

AYZENSHTAYN, P.G.; VELIKOVSKAYA, Ye.M.; GARZANOV, G.Ye.; GRUSHEVENKO, V.I.;
STERKHOVA, L.N.

Anastas'evskaya petroleum of the IV horizon as a stock for producing low-viscosity oils. Khim.i tekhn.topl.i masel 5 no.2:1-6
P '60. (MIRA 13:6)

1. Neftemaslozavody.
(Krasnodar Territory--Petroelum--Analysis)

VELIKOVSKAYA, Ye. M.

Upper Pliocene continental sediments in the Kuban trough. Bul.
MOIP. Otd. geol. 35 no.5:83-96 S-O '60. (MIRA 14:1)
(Kuban--Geology, Stratigraphic)

USSR/Human and Animal Physiology. Blood. Formed Elements
of Blood.

T-4

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55427.

Author : Velikovskaya, Yu., Myan, I.

Inst : Moscow Academy of Veterinary Sciences.

Title : A Comparison of Results in Erythrocyte Counts Obtained
by Various Methods.

Orig Pub: Sb. nauch. rabot stud. Mosk. vet. akad., 1956,
vyp. 3, 100-104.

Abstract: The erythrocytes of horses, cows, dogs, and rabbits
were counted after they were diluted in a mixer, and
in a test tube according to the method of Nikolayev.
Thus, it was demonstrated that when blood was diluted
in a test tube, the erythrocyte count was not less
accurate than when it was diluted in a mixer. The

Card : 1/2

VESELOVA, T.P., kand. veter. nauk; VELIKOVSKAYA, Yu.A., veterinarnyy vrach;
GORAEVKA, L.V., biolog.

Role of histamine in the mechanism of the toxic action of carbon
tetrachloride in cattle. Trudy VIGIS 10:169-178 '63.

Relation between guanidine and histamine in the toxic process in
animals caused by carbon tetrachloride. Ibid.:178-184
(MIRA 17:9)

VESEL'KOVA, T.P., kand. vet. nauk; VEROB'YEV, M.A., mladshiy nauchnyy sotrudnik; DOROSHINA, M.V., mladshiy nauchnyy sotrudnik; VELIKOVSKAYA, Yu.I., vet. vrach; KOSTENKO, T.F., uchenyy zootehnik

Significance of the injection of hexachloroethane in medicinal form to the cattle with fascioliasis. Trudy VIGIS 11:202-206
(MIRA 18:12)
164.

77

CO

Petrolatums from Surakhnau crude oil Neftegazprom Aktau village 17, 71 X 1929			A. A. KIRILOV AND S. N. KOSTOVA				
No.	Number color	Re.	Pencky- Martens Color	Unbenzene drop test	Free acids mg KOH	Paraffin, %	
S. O. Co. "Snow White"	0.102	181	4.98	215	46.2	0.0100	44.3
Baku White Medi- cinal	—	221	9.5	4	40.0	0.2010	21.0
Sinclair "Extra Lily Amber"	0.0226	3.0	2.72	181	41.4	0.0104	—
Anneft Baku Yel- low	—	11.0	7.8	—	39.0	0.1915	30.1
		M.p. of par- affin, °C	Ash, %	Cone- sistency after re- heating	Cone- sistency after 3 days	Color of H ₂ O ₂ after contact with vanillin	
S. O. Co. "Snow White"	51.5	0.0034	0.5	75	75	dark brown	
Baku White Medi- cinal	51.0	0.0030	25	—	—	slightly brown	
Sinclair "Extra Lily Amber"	—	0.0040	150	125	—	black	
Anneft Baku Yel- low	51.0	0.002	10	3	—	light brown	

The inferiority of Russian petrolatums is due to the want of a fuller's earth treatment and to their high oil content. Paraffins of high melting point improve the properties of petrolatum.

A. A. KIRILOV

AIU-1A METALLURGICAL LITERATURE CLASSIFICATION

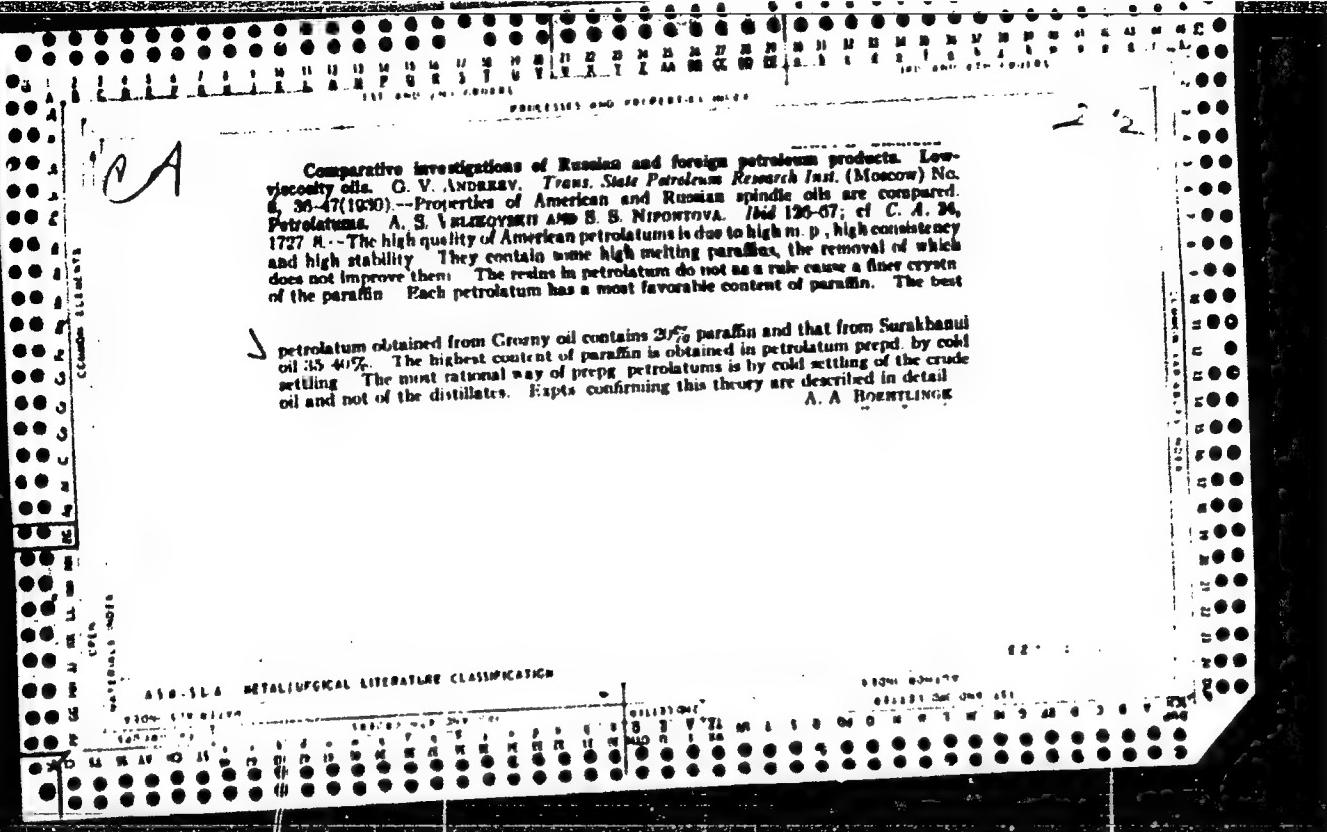
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*CH**77*

Comparing American and Russian paraffin waxes. S. N. NAMEKIN, A. S. VILKOVSII AND S. S. NIORTOVA. *Neftegaz Khezylske 17, 633-49(1929).*--The Grozny crude paraffins are of darker (unstable) color. They have oily spots on paper and have a distinct kerosene odor. This is due to the high proportion of resins in the Grozny crude oil. The resins could be easily removed by treatment with oleum. The large quantity of oil present in Grozny paraffin is due to insufficient sweating. More thorough sweating will reduce the amt. of treating to be given. These paraffins, when subjected to proper sweating, produce paraffins of a higher quality than the best grade of American refined waxes. An intermediate grade of paraffin could be produced for the match industry; it is cheaper. In detg. the qualities of wax, special care is required, in detg. the sp. gr., that the air be entirely removed. The use of consistometers is also recommended. The oil content should be detd. by the Wilson and Wilkin methods. These conclusions are based on a great variety of expts. fully described in the original paper.

A. A BOGATYR'EV

ASB-15A METALLURGICAL LITERATURE CLASSIFICATION



The application of paraffin in the match industry. A. N. KERZNER AND F. V. NURKINSONOV. *Neftegazovye* 20, 196 (1931).—Paraffin used for matches may contain up to 60% of spindle-oil distillate, but it should be low in heavier fractions, and there is no need for a thorough acid and clay treatment. Mixtures carried out with unrefined and refined paraffins and paraffin diluted with various oils are described. A. A. Bochtingk.

A.A. Boethlingk

Canada's Element

ASU-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859320007-6"

The Edelstein method applied in the treatment of lubricating oil distillates of heavy crude oil from Bimangadui. A. N. VELIKOVSKII and I. V. PIENYAK. *Neftegazov Khimiya*, 20, 474 (1951).—Machine and cylinder oil distillates obtained from Bimangadui crude oil were treated with liquid SO₃ at -10° and the oils obtained were compared with those prep'd. by the usual methods. They have (1) a much lower sp. gr.; (2) lower viscosity at low temps. and about the same viscosity as acid- and alkali-treated oils at high temps.; (3) a higher flash than the distillates; (4) general properties of SO₃-treated heavy oils from Bimangadui crude oil are about the same as those prep'd. from light Balakhanui crude oil; (5) a poor color direct after-treatment which is quite satisfactory after an additional treatment with activated clay, this being due to the interaction of clay with SO₃; (6) oils treated according to (5) are low in Conradson carbon; (7) oil treated according to (5) may in some cases be treated with 1-2% of H₂SO₄. The est. left after the SO₃ and after having been blown with air constitutes a high-grade asphalt which could be used either as such or in admst. with some low grade asphalt.

3.3 路由器的配置

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859320007-6"

Investigation of Sterlitamak crude oil. A. N. Velykovskii and S. N. Dubov, Neftyanoye Khodyatstvo 24, 231-5 (1962).—Samples of crude oil from wells Nos. 502 and 703 were characterized as follows: sp. gr. 0.8715-0.892, viscosity η_0 2.33-2.43, η_{40} 1.04-1.05, pour point below -20°, cearse resins 29.4-28%, asphaltene 0.10-0.43%, S (brom) 2.50-2.18%, paraffin wax of m. p. 50-56°, 1.41-1.53%, acidity in mg. KOH 0.003-0.190, SO₂ 0.007-0.014%. The contents of various fractions are: gasoline and naphtha 22.8-15.9, kerosene 14.0-14.5, light gas oil 10.0-10.5 and fuel oil 51.8-54.0%. The fuel oil was broken up into 11.5% heavy gas oil, 53.0% lubricating oil distillates and 33.4% bottoms. The crude oils from these wells are very similar except for the content of light fractions which are absent in well 703. Gasoline and kerosene fractions are high in S and require a special method for its removal. The lubricating-oil cuts have a high pour point and are suitable for the production of paraffin wax; they are also good cracking stock. The bottoms produce good road asphalt.

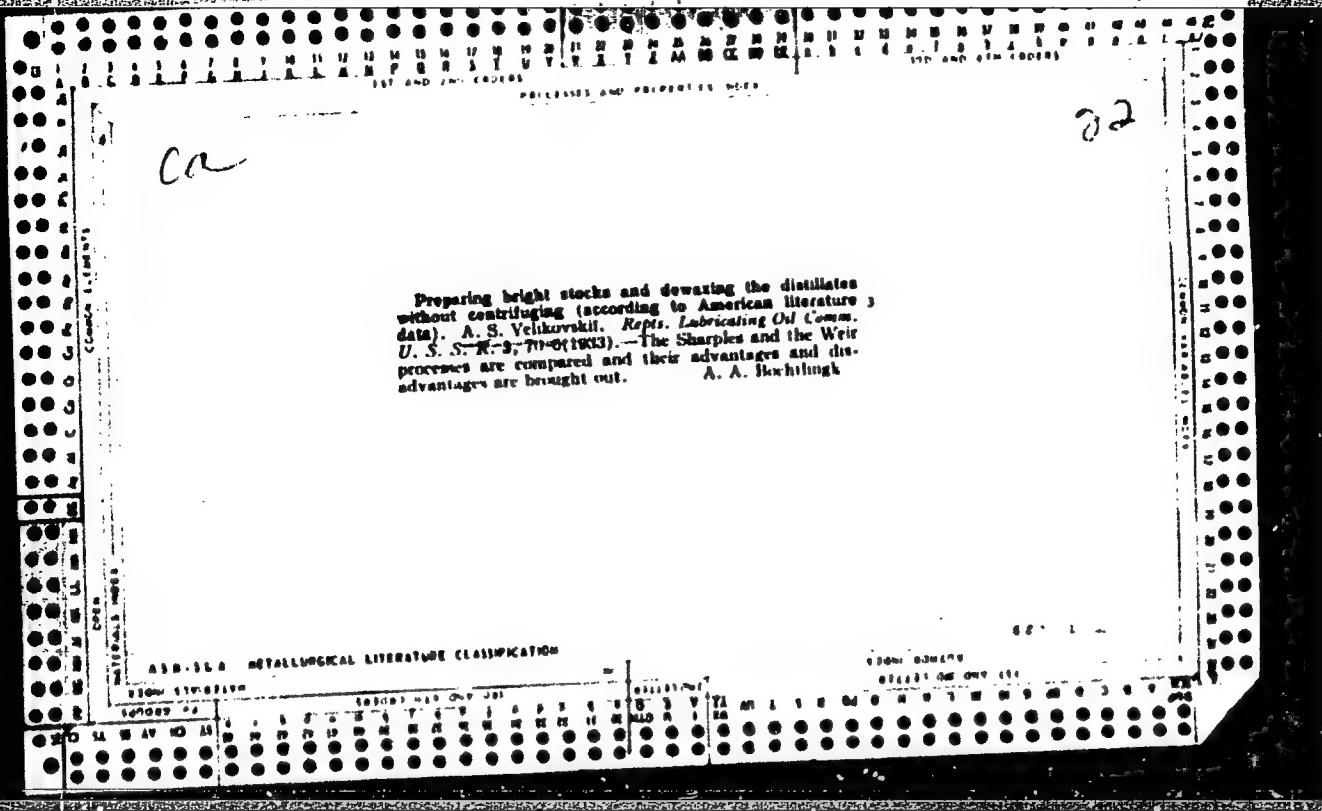
— A Remembrance

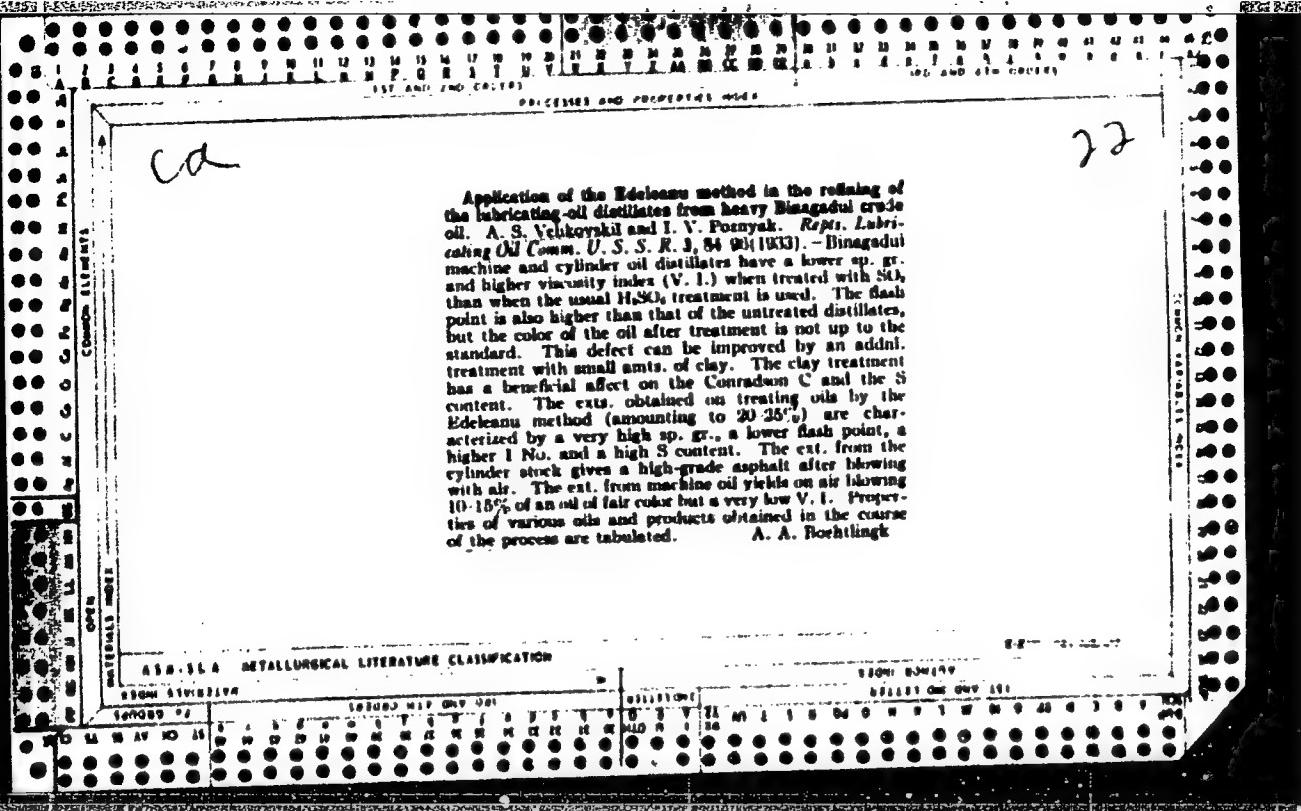
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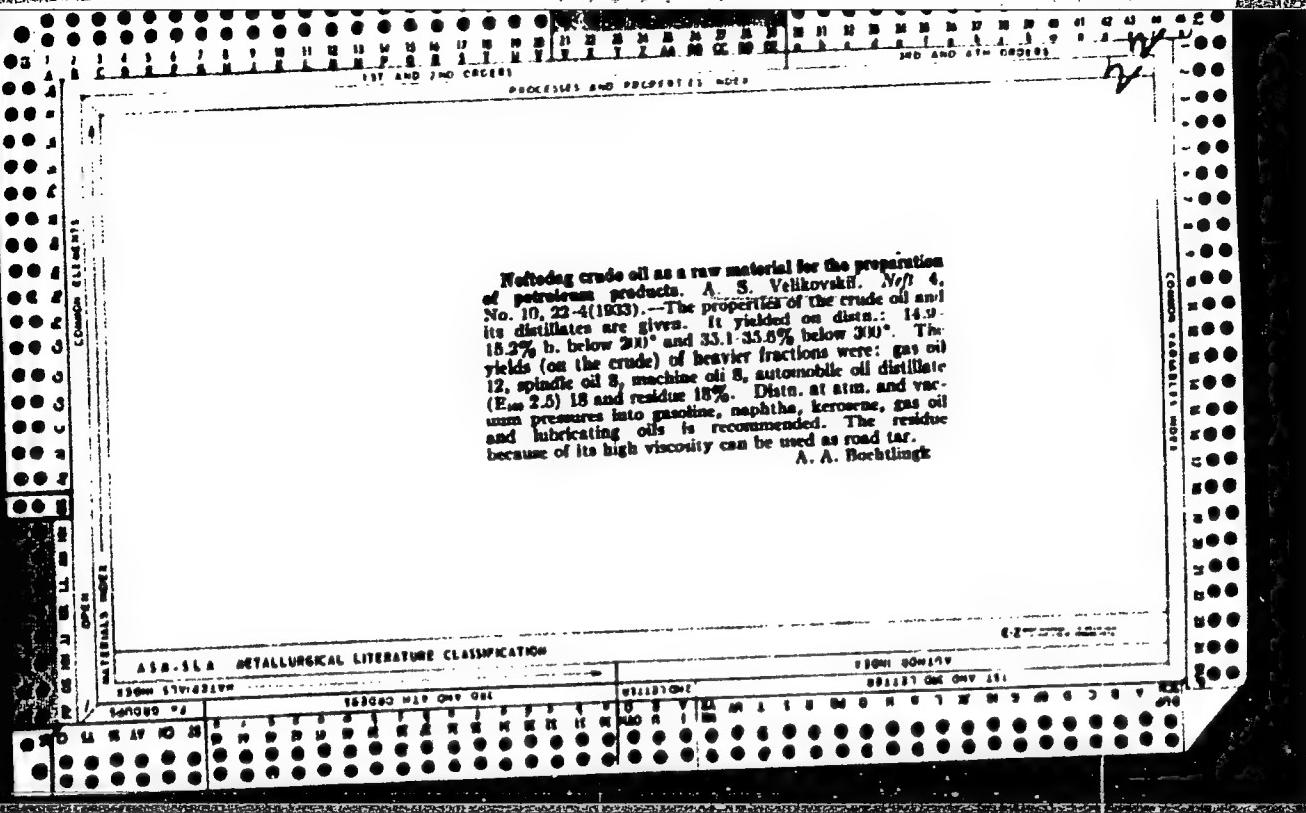
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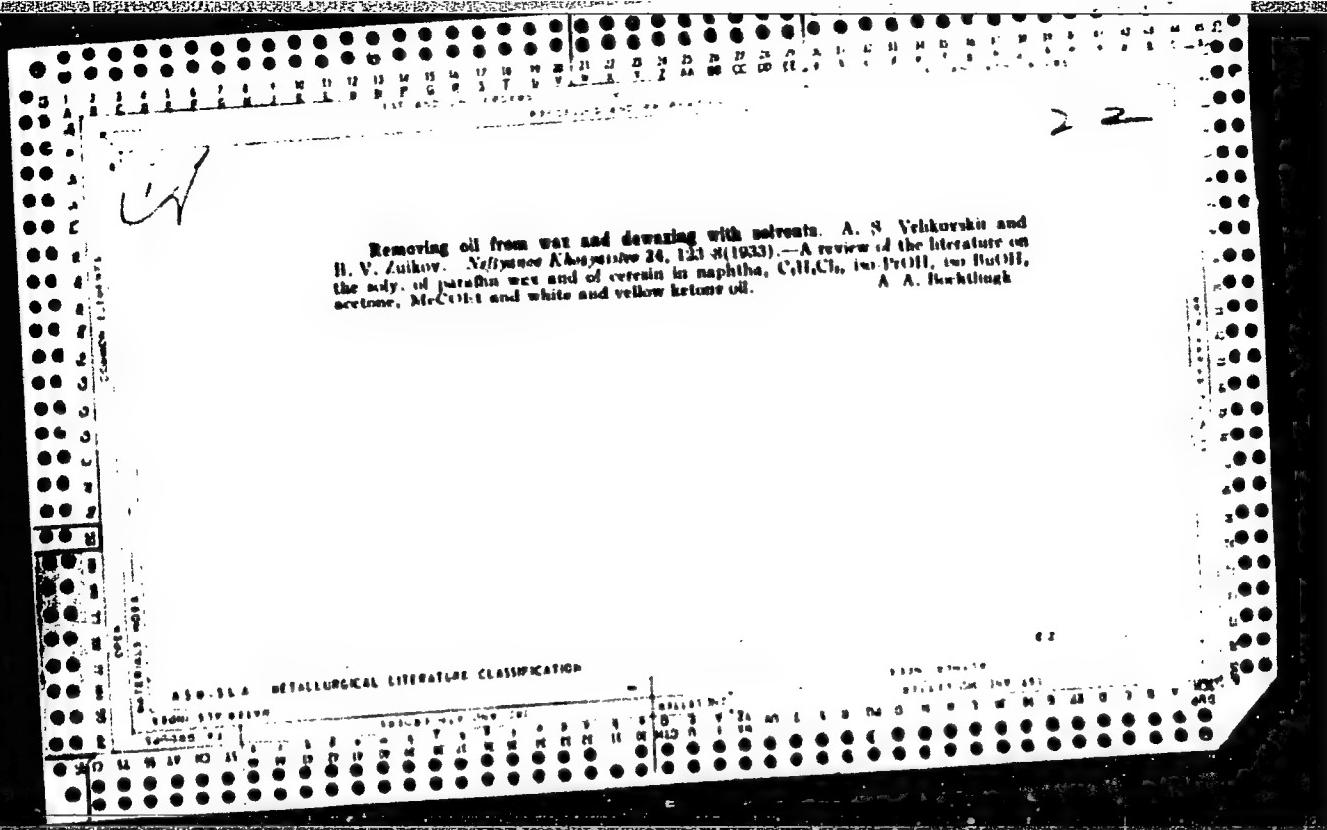
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Preparing transformer oils by the Edelmann method. A. S. Velykovskii, I. V. Pomyak and R. G. Semenikhin. *Neftegazov Khospolite* 24, 245-301 (1929) — Various Russian distillates were treated with SO_3 , by using up to 600% of the liquid. The stability of the oil was unsatisfactory without the use of clay. It appears that activated-clay treatment is essential even after treatment with 600% of SO_3 to avoid the separation of a residue after 14 days. Less SO_3 can be used by increasing the ratio of clay. The Edelmann ext. can be used as Diesel fuel or as cracking stock for preparing antiknock gasoline. Oils treated with H_2SO_4 or okumite are not as stable as oils treated with SO_3 . Many tables showing the behavior of various oils and their distillates are given, and the treating procedure is described in detail. A. A. Buchtingk









Pretreating crude oils with alkali. A. S. Velykovskii¹ and A. V. Druzhinina. *Neftegaz. Khimiya* 25, 47-55 (1953).—The caustic treatment of Kuma crude lubricating oil (a mixt. of light Balakhanus-Sabanchi and light Roumanian crude oils) by using a 4% soln. of NaOH and passing it in countercurrent to the crude at 65-70° lowered the acidity from 2.202 mg. KOH to 0.402 mg., the neutralization being effected up to 90.7%. The caustic sludge had a black color, and its org. part had an acid no. of 124. It contained 36.8% of unemulsifiable substances. The emulsions were not formed, while the distillates had a better color and needed smaller amt. of reagents in the final treatment. Because of the removal of naphthenic acids from the crude oil the distill. equipment is not subjected to corrosion. Similar results were obtained with other Baku oils; in some cases the strength of NaOH was changed. All treated oils showed a higher amt. of ash. Heavy crude oils contg. 0.0-1.2% petroleum acids acted less favorably; some of the alkali remained in the oil and quite a high proportion was found in the sludge. Some oils such as the Kuma crude oil formed emulsions which were broken by adding 1% of kerosene naphthenic acids. The alkali sludge contained up to 50-60% of oil. The compn. of the org. part septd. from the sludge from Bibi-Eيلat crude oil contained: asphaltogenic acids 0.23, naphthenic acids 63.62, asphaltenes 0.06, resins 4.07 and "oil" 31.16%. The oil is composed of the lightest and the heaviest crude-oil fractions.

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CIA-RDP86-00513R001859320007-6"

Russian crude oils as a raw material for the preparation
of aviation oils. A. S. Yelikovskii and R. G. Semenova.
Neftegaz Khozyaistvo 25, No. 10, 49 (1953). - The
Soviet standards for aviation oils differ from the American
by a higher flash point (230°), lower pour point (-10°),
higher acidity (0.06%) and higher ash content (0.05%).
Attempts to select stocks which would make aviation oils
that conform to the American standard failed because of
the low viscosity at elevated temps., except with Sagie
oil. The high pour points of the Soviet oils were improved
by adding paraffin. The importance of using distillates
instead of bottom oils is emphasized. A. A. B.

Crude oils from non-Caucasian deposits. A. S. Veli-korskii and S. N. Pavlova, *O. N. T. I. Gornogorod.-Neftegazov. Izdat., Crude Oils, Bitumens and Gases from Non-Caucasian Deposits* 1934, 4-5. — The gasoline-naphtha fractions were obtained from the following crude oils: Novoroginskaya (Emba district) 51, Nefte-dag (Turkmen district) 42.5, Okha (Sakhalin) 11th-12th and 27, Kim (eastern district) Mid-Asia district 24, Chuys' 24, Shirkhatan (well No. 242; 22.5, Ukhia (well on the river Chib-yu) 20, Shorsu (Mid-Asia district) and "L" 18, Chikk'en (Turkmen district) 18, Nefte-dag (sands of lower Apcheron and of "red sand") 18-17, Chirman (Turkmen district, sand "M") 16.5, Kim (western part) 16.5, Shorsu (sand "N") 18, Shabar-Kuduk (Emba) 12.8, Sagiz (Emba) 11, Okha (Sakhalin 7th sand), 10, Domes (Emba) 6 and Okha (Sakhalin, 3rd sand) 6%. The amines distilling below 100° and the other compns. are given.

AIA-SEA METALLURGICAL LITERATURE CLASSIFICATION

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CIA-RDP86-00513R001859320007-6"

Investigating Shubaz-Kenduk crude oil (Bomba). A. S. Velikovskii and E. N. Pavkova. O. N. T. I. Gorner-19007. *Neftegaz. Izdat., Crude Oils, Bitumens and Asphalt from Non-Congressional Deposits* 1934, No. 94.—This crude oil is higher in resins, asphaltines, S and paraffin than the usual Emba oils. The lab. distn. yielded gasoline (up to 200°) 12.8%, kerosene (250°-280°) 13.7%, gas oil 12.1-13%, lubricating-oil distillates 30% and heavy bottoms intermediate between those of Baku and of Gruzya, although it is deficient in fractions b, below 100°. The gasoline and the kerosene fractions are comparatively high in S and low in aromatic compds. and high in naphthalene (up to 50%). The lubricating-oil fractions have a good viscosity-temp. index but have a high pour point. The heavy bottoms yielded on blowing with air about 27% (on the crude oil) of a road asphalt of inferior quality. The results of tests are tabulated. A. A. Bozhilinsk

Investigating Tamsukui crude oil. A. S. Yakhovskii and S. N. Pavlova. O. N. T. I. *Geos-Gos-Neftegaz. Ind. Crude Oil, Bitumens and Gases from Non-Concession Deposits* 1934, 94-105.—The Tamsukui crude oil has d. 0.933, S viscosity 8.04, Holden pour point below -18°, cetene number 15.4, asphaltene none, paraffin 0.74% (m. 51%), S 0.23%, acidity (% SO₃) 0.113%, petroleum acids 0.422%, and acid no. 145. Distill. yielded kerosene (up to 200°) 11.8, gas oil 10-14.7, lubricating-oil distillates 41-42 and bottoms 28.9%. Gasoline fractions were absent. The kerosene fractions are high in S and have a positive doctor test even after treatment with 0.5% H₂SO₄. This crude oil yields lubricating oils of low sp. gr. and good temperature-viscosity index that compare favorably with the Baku export lubricating oils.

A. A. Bochting

CA

22

COMMON VARIABLE

ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

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CIA-RDP86-00513R001859320007-6"

Investigating Sogis crude oil. A. N. Volkovskii and B. N. Pavlova. *O. N. T. I. Gorno-Geol.-Neftegazov. Izdat.*, Crude Oils, Bitumens and Gases from Non-Caucasian Deposits 1934, 108-18.—Sogis crude oil has d. 0.9125, kin viscosity 1.60, excise residue 1.2%, pour point -15°, asphaltene none, paraffin (Hodges) 1.15% (in % 20°), S 0.19% and acidity 0.015% (in % SO₂). It yielded on distn. gasoline (b. below 200°) 11, kerosene (b. 200-90°) 23.5, gas oil 14, light spindle oil 20 and heavy bottoms 30.4%. The gasoline is deficient in fractions b. below 100°, while the kerosene distillate is of a high standard even before refining. In the gasoline fraction waxy compounds prevail in the cut b. below 150°, while the kerosene is high in naphthalenes. The heavy bottoms have low d., low resin content and a high pour point. The stripped crude oil yields a relatively high amount of light lubricating-oil fractions, while the bottoms are suitable for the prepn. of lubricating oils for aviation motors. The lubricating-oil fractions have the highest temperature-viscosity index of all Soviet crude oils. The heavy bottoms, which constitute 12% of the crude oil, are of a very low sp. gr., which makes them unsuitable for the prepn. of road asphalt. This is the most typical Soviet paraffin-base crude oil. The results of analyses carried out with various fractions are tabulated. A. A. B.

~~ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION~~

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CIA-RDP86-00513R001859320007-6"

Uzbekian crude oils. A. S. Velikovskii and S. N. Pavlova. O. N. T. I. Gornogeo.-Neftyanaya Indus. Crude Oils, Bitumens and Gases from Non-Cenozoic Deposits 1934, 131-2.—A review. Investigation of Retched crude oil (lower part of the Apsheros horizon). Ibid. 132-47.—This oil has sp. gr. 0.818-0.881. Abel viscosity 1.70-2.26 (the oil of d. 0.818 had E_{10} viscosity of 1.11), ester resins 16-33.7, asphaltenes 0.31-0.60, S 0.18-0.36, paraffin (Hilde) 0.20-0.45% (m. 48-54°), acidity 0.108-0.173% (in % SO₃) and naphthenic acids about 0.6%. These oils are low in paraffin. Distn. 20.3-16, heavy gasoil and lubricating-oil fractions 42-22 and bottoms 22-18%. The compn. of the gasoline fractions is very close to that of Apsheros crude oils, i.e., this gasoline is a good motor fuel. The lubricating-oil fractions have good sp. gr.-viscosity ratios and flash points as well as low pour points. The bottoms are not suitable for the prepoly/ road asphalt. These crude oils are high in naphthenic acids. The details of analyses are tabulated.

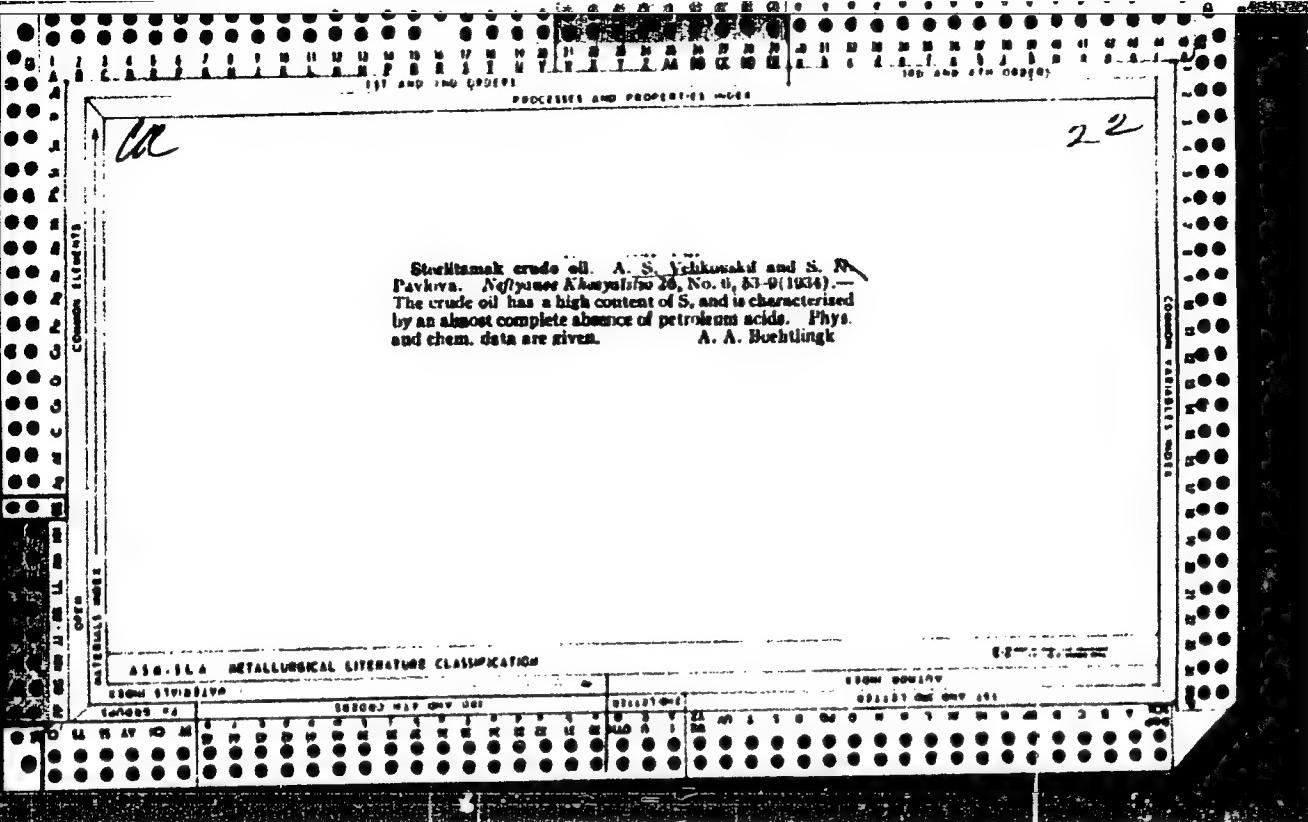
lated. Investigation of the Notedag crude oil from well no. 13 (upper "red" sand layer). *Ibid.* 147-51.—This oil has a sp. gr. of 0.908, η_{40} viscosity 8.13, η_{100} viscosity 2.14, pour point -10°, encrusting resins 32%, S (brom) 0.24%, paraffin (Hilde) 0.53 (m. 56°) and acidity of 0.22 (in % SO₃). This oil is similar to that from the lower sands. *Ophthalmed crude oil.* *Ibid.* 151-9.—These oils have d. 0.840-0.852, Abet-Pensky flash point 16-18°, pour point 1.0-3.5°, η_{40} viscosity 1.37-1.65, encrusting resins 20-25, asphalts 0.47-0.65, S 0.24-0.26, paraffin (Hilde) 3.0-4.2 (m. 46-51°), acids 0.0034-0.007% (% SO₃), naphthenic acids 0.014, C 2.36-2.84 and ash 0.02-0.04%. A lab. distn. yielded gasoline 17.8, kerosene 18, light gas oil (270-300°) 4, heavy gas oil 3.9, lubricating-oil cuts 27.7 and heavy bottoms 23.8%. The gasolines are deficient in fractions boiling before 100° and are poor in aromatic compds. The kerosenes have a good color after treatment and a low d. The stripped crude oil is similar to that from Gor'uy mixed-phase crude oil. Results of the investigation are tabulated.

Sakhalin (Sakhalis) crude oil. A. S. Velykovskii and S. N. Pavlova. O. N. T. I. Gorno-Geol.-Neftyanoe Izdat., Crude Oils, Bitumens and Gases from Non-Caucasian Deposits 1934, 270-94.—Sakhalin crude oil has d. 0.9154-0.9324, E_4 viscosity 6.88-13.46, E_{20} viscosity 2.17-3.03, pour point (after preheating to 50°) -20°, extract resins 32-8%, asphaltenes 1.00-1.39, paraffins (Hodde) 0.10-0.94% (m. 49-80°), S 0.81-0.46, acids 0.019-0.004%, Breken flash point 40-84° and Brenken fire point 80-114°. Sakhalin crude oils have an asphalt base. The oil from the 3rd sand contains practically no paraffin, while that from the 4th sand contains 0.6, and that from the 7th and 8th sands contains 1% wax. The oils from the deeper sands contain more light fractions. The distn. (lab.) of the crude oil from the 3rd sand yielded gasoline 6.7, kerosene 16, light gas oil 6.7, heavy gas oil 7.0, lubricating-oil fractions 39.0 and asphalt 23.5%.

Chirman crude oil (eastern parcel, sand "M," well no. 67); A. S. Velykovskii and P. S. Hofman. O. N. T. I. Geos-Geol. Neftegaz. Izdat., Crude Oils, Bitumens and Gases from Non-Caucasian Deposits 1934, 225-10. — This crude oil has d. 0.8743, Eng viscosity 1.04, pour point below -13°, Abel-Franky flash point +12.5°, extract resins 24.9, asphaltene 2.7, Conradson C 4.64, S 0.127, paraffin (Hilde) 4.16 (m. 53°), ash 0.008 and acids 0.0050%. A lab. distn. yielded gasoline 16.5, kerosene 12.0, light gas oil 6.6, heavy gas oil 8.0, lubricating-oil distillates 31.0 and bottoms 23.8%. In spite of low content of S, the gasoline fractions are high in S and require special processing. They contain 12% aromatic compds. and approx. equal amounts of naphthenes and satd. compds. The gasoline is intermediate in anti-knock value between those from Grozny and from Baku. The kerosene fractions contain about 16.8% of aromatic

compds. and a slight excess of paraffins over naphthalene hydrocarbons; they make a better motor fuel than those from Grozny. The lubricating-oil fractions have high pour points and favorable sp. gr. and flash point and viscosity ratios. The heavy bottoms, which amt. to 23.2% of the crude oil, did not yield a satisfactory road asphalt.

A. A. R.



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CIA-RDP86-00513R001859320007-6

New Zembla crude oil. A. S. Vekhovskii, P. S. Hodman and A. V. Bogdanova. Neftegaz Khozyaistvo 20, No. 7, 55-62(1954). A. A. Borzhengk

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859320007-6"

22

CH

Crude oil from Neftealan. A. S. Veshenskii and L. I. Saranchuk. Neftyanoe Khoyatino 20, No. 3, 71-8 (1953).

Neftealan crude oil has the following characteristics:

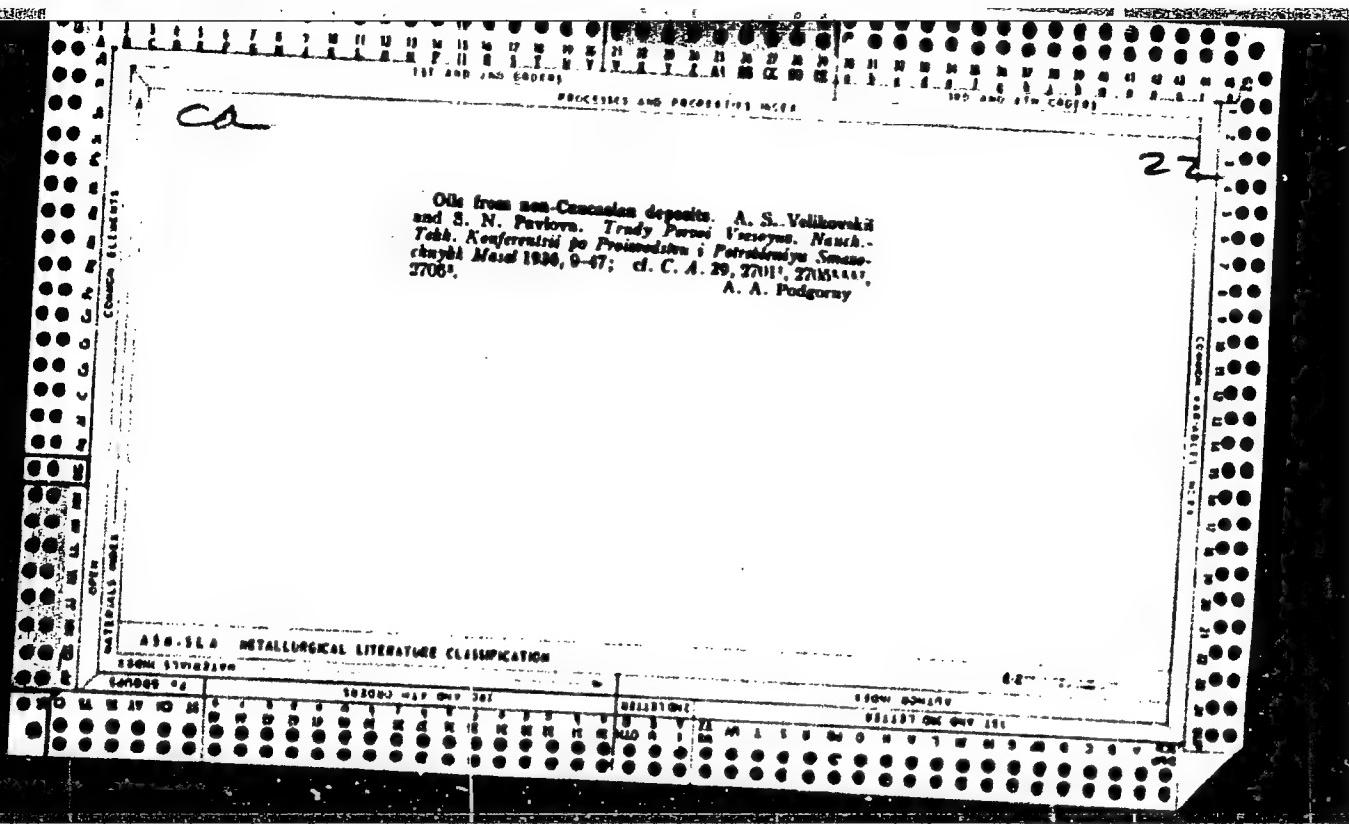
Dark brown to black, aromatic odor, $d_4^{20} = 0.9450$, Refractive index 1.65, Fm 1.67, Holden pour point (after heat treatment) below -20°, Martens-Metzky flash 104°, carbon resins 28%, Conradson C 4.14%, asphaltene 0.47%, paraffin (Holden with destruction) same, S (brum) 0.4637%, N (Kjeldahl) 0.109%, acidity of the crude oil 8.861 g KOH, naphthenic acids 3.07%, acid no. of petroleum acids 228, ash 0.33 and water and dirt 2.17%. It is used externally as medicine for mange, burns, scatica and erysipelas, etc. Its kerocene fraction and lubricating-oil fraction contain 90.17-90.67% naphthalene hydrocarbons and 3.33-8.83% aromatic hydrocarbons. A. A. Boettling.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM 811-82114		RECORD MAY ONLY ONE		SECTION		FROM 82114		RECORD ONE ONLY	
E	SEARCHED	1	2	3	4	5	6	7	8
M	SEARCHED	1	2	3	4	5	6	7	8
U	SEARCHED	1	2	3	4	5	6	7	8

The relative oxidizability of various lubricating oil fractions from several crude oils. A. N. Balakhnai and A. V. Vasil'eva. *Neftegazovye Khimicheskie Soedineniya*, No. 1, 1965; *Foreign Petroleum Techn.*, 6, 240-245 (1966). In 100 20-cc. test tubes air at ordinary pressure was passed through oils to be tested at the rate of 200 cc. per hr. per 100 g. of the oil. Treated and untreated distillates are not oxidized at 105-150° in the absence of catalyst, except the Gruzin' gas oil treated with 2% oleum. The oxidizability of oils treated with H₂SO₄ or oleum is sharply increased in the presence of Cu naphthenate as catalyst. All treated and untreated oils are oxidized in the presence of Mn naphthenate. Surakhnai and Grozny distillates when treated with H₂SO₄ are affected by air, while those of Eniba and Balakhnai crude oil remain unchanged. The heavy Balakhnai crude oil distillates are not oxidized even after treatment with 25% oleum; this is an indication of their high content in aromatic hydrocarbons. SO₃ treatment promotes the oxidizability of even the most stable distillates. More highly refined oils are oxidized with greater ease and yield low-mol. acids and hydroxy acids. The total yield of acids increases for highly refined Surakhnai paraffinic and Eniba crude oils with the increase of viscosity, while the yield of hydroxy acids decreases. The oxidizability of oleum-treated oil, judged by the yield of acids and hydroxy acids, can be ranked in the following decreasing order: Gruzin' gas-oil distillate, distillates of the Surakhnai paraffinic and Eniba crude oil distillates. Distillates from the heavy Balakhnai crude oil were the most resistant. A detailed description of the results is given. Seven references. A. A. Borzhilova

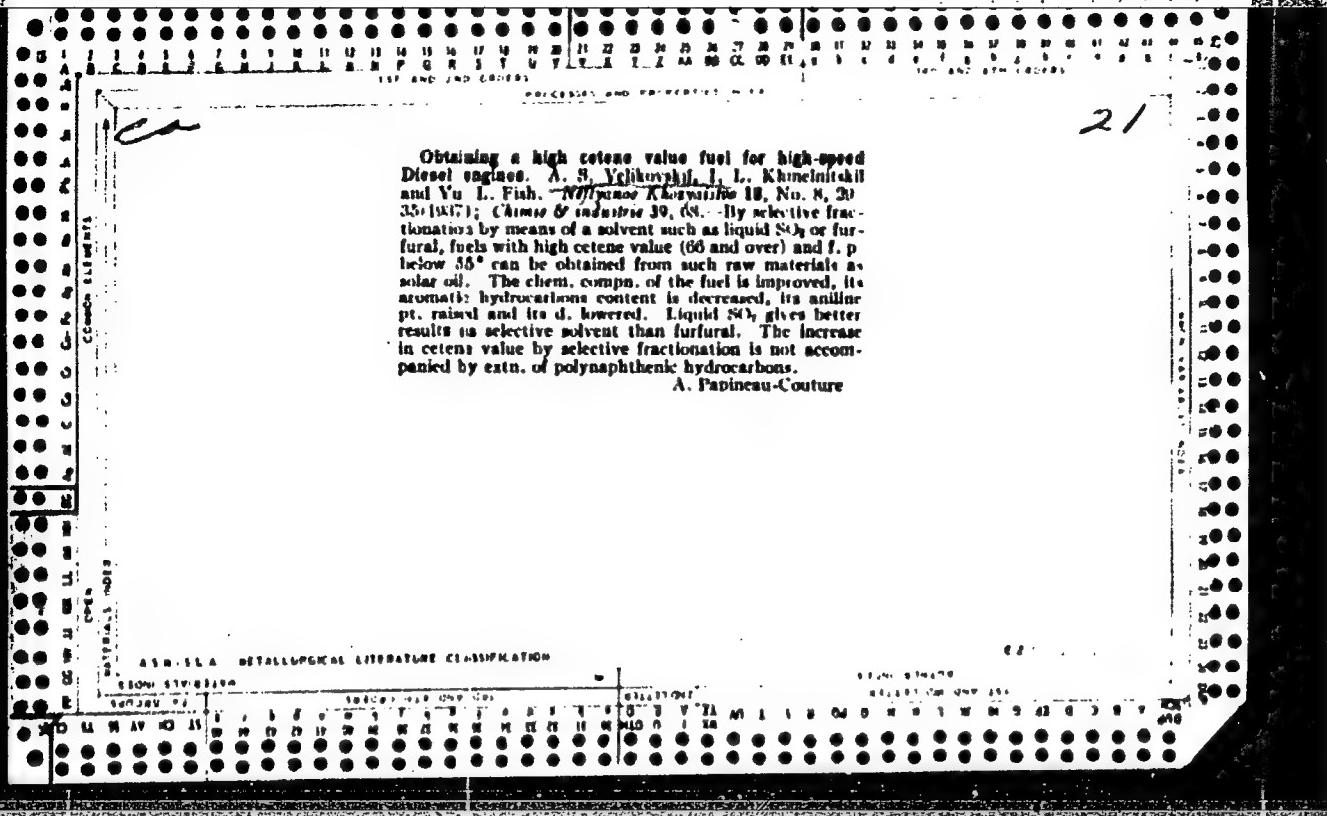
A10-116 METALLURGICAL LITERATURE CLASSIFICATION

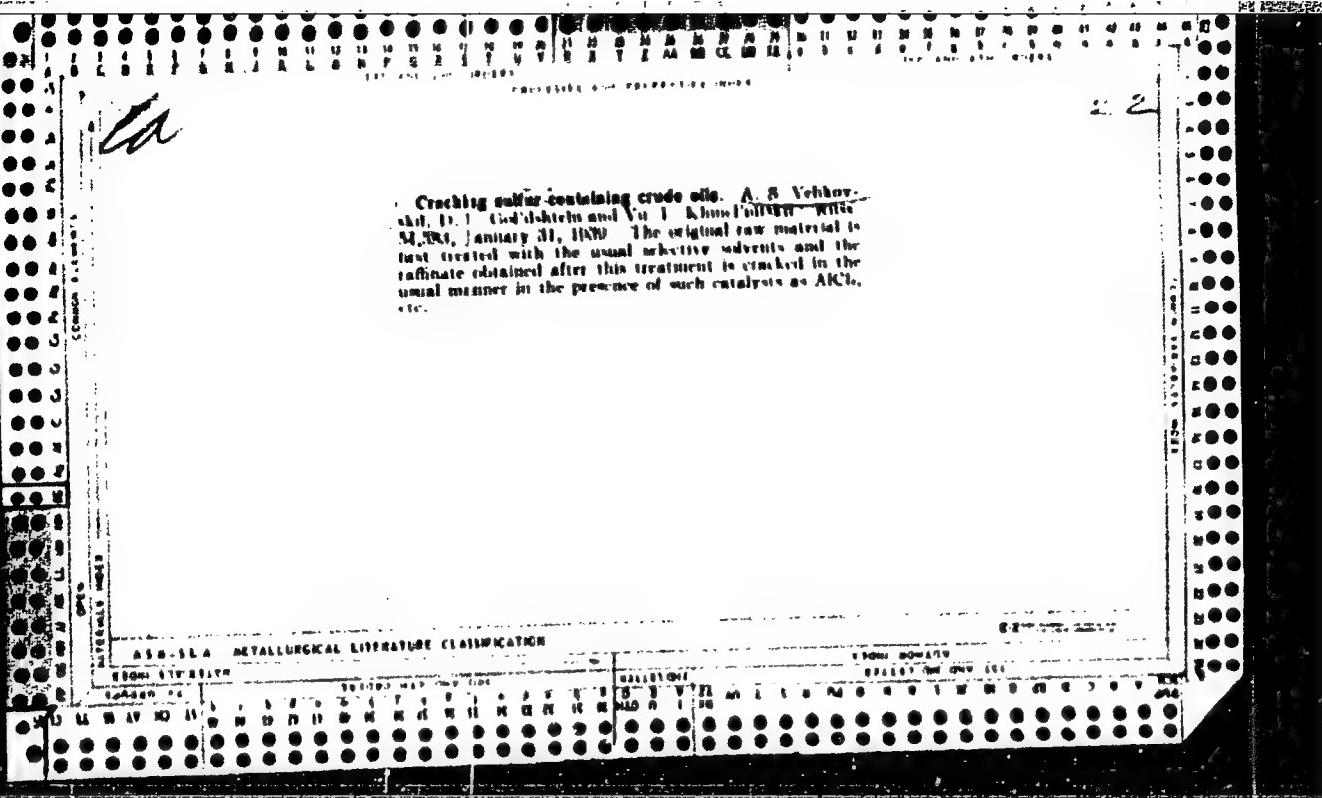


22

Investigation of Korchagyl petroleum. A. S. Vichinskii, G. N. Pavlova, P. S. Hoffman and I. M. Lukchikova. Neftegaz. Akademiya 1937, No. 3, 10 to 10(71). Compt. Rend. 1937, II, 2101. The petroleum has a d. of 0.810 and an higher viscosity of 1.3 at 50°. The low oil contains 10% resinsous substance, 0.88% benzolin, and the 1-0m carbon-carbon test value is 1.41%. Upon distil., 21% distils below 200°, 19.8% at 200-300°, and 0.36% above 300°. The gasoline has a high octane no. The oil yields 11% gasoline p. up to 1.0% of octane no. 70.5. The gasoline belongs to the naphthenomethane series of Winkler. The mineral oil fractions have a high C.p. but are nevertheless very sensitive to "Paraffin." Boiling of the residue yields 20% gasoline distil. up to 200°.

M. G. Moore





CA

Preparation of kerosene of high octane number and Diesel fuel of high octane number from Ishimbayev crude oil. A. S. Velikovskii and Yu. L. Khmel'nit'skii. *Vestn. Akad. Nauk SSSR* 1939, No. 2, 24-5. An ext. having a sp. gr. of 0.8736, initial b. p. of 130°, with fractions b. below 200° 27.8% up to 270° 26.0% and end point 304° was obtained by treating with Na₂S, a fraction (23% on the sample oil) of Ishimbayev crude oil, b. p. 100-300° and contg. 30% of aromatic hydrocarbons. The content of aromatics increased to 68%, and the octane no. from 26 to 61. The extn. was carried out at 5 to 7° with use of 4 batches of SO₂, 50% by vol. each. Each per cent of aromatics in the Ishimbayev kerosene increases the octane no. by 0.95 unit, and the yield of the above kerosene depends upon the concn. of aromatics in the extn. Up to 1/3 of the original kerosene could be obtained under the above conditions, while about 13% of aromatics remained in the raffinate. Thus the prepn. of a kerosene with an octane no. of 40 will require a 15% content of aromatics, and therefore 63% of it can be used for tractor fuel. The high content of S (3.6%) can be lowered by hydrogenation. Thus, as the result of the extn., a raffinate with a low content of aromatics (13%), is obtained while the cetene no. increases from 80 to 70. The content of S in the raffinate can be brought down to 0.3% in a batch extn. of the extn. The product can be used as Diesel fuel. A. A. Bochlinik

21

Preparation of isooctane and isoheptane from ethylene.
 A. N. Vekhovskii, P. I. Pudol'skaya and N. I. Pukinskaya.
Neftegaz-Mash, 20, No. 9, 41-3 (1939); *Petroleum Eng.*, 12, No. 1, 62, 64 (1940).—A preliminary report is given on the two-stage polymerization of ethylene to C₅ and higher hydrocarbons. With a gas contg. 93.7% ethylene in the presence of a catalyst called SK (not further identified, but believed to be used in the synthesis of rubber), polymerization expts. were carried out at 250 and 300°, at atm. pressure, and with 10 sec. contact time. At 250°, 37.0% of the ethylene underwent reaction per pass and the products contained 70.4% 2-butene and 18% liquid hydrocarbons on ethylene converted. At 300° the unconverted ethylene amounted to 49.7% per pass and the products contained 52.3% 2-butene and 40.3% liquid hydrocarbons. The liquid products contg. appreciable amounts of 2-methyl-3-butene (below 30% in tests at 300°) and octenes were hydrogenated to give a high-octane fuel. It is believed that yields of isooctane greater than 60% on the initial ethylene are possible; butane can be polymerized separately and the product hydrogenated to isoheptane. After removal of the pentene fraction the liquid product contains as much as 30% hexenes and is still a good blending fuel. Polymerization proceeds along the same lines when a gas contg. 20% ethylene is used as feed. Rapid data are reported in tables showing yields per pass, boiling ranges of the liquid products, sp. gr. and refractive index of the liquid fractions, and complete analysis of the pure or hydrogenated (hydrostabilized) products.

ABR-SLA METALLURGICAL LIBRARY
ECONOMIC SECTION

R. J. Mal

24

22

Use of phenol for the selective treatment of gasoline.
A. M. Velykovskii and L. F. Lebedinskaya, *Neftegazova Prom.*, 24, No. 6, 89-92 (1941); *Chem. Zentral.*, 1943, II, 979. — Results are given for the extrn. of aromatic compds. from the fraction boiling from 80-130° of the paraffinic petroleum from Ormuz by means of phenol plus 10% water. With an initial aromatic content of 3.8 to 4%, the residue contained 0.1% and the ext. 11% aromatics. If the extrn. is carried out in two stages, an aromatic content

I of 30-40% can be reached. A schematic diagram of the R. W. Ryan
app. is given.

AMERICAN METALLURGICAL LITERATURE CLASSIFICATION

BC

PROCESSED AND PROTECTED IMAGE

B-1

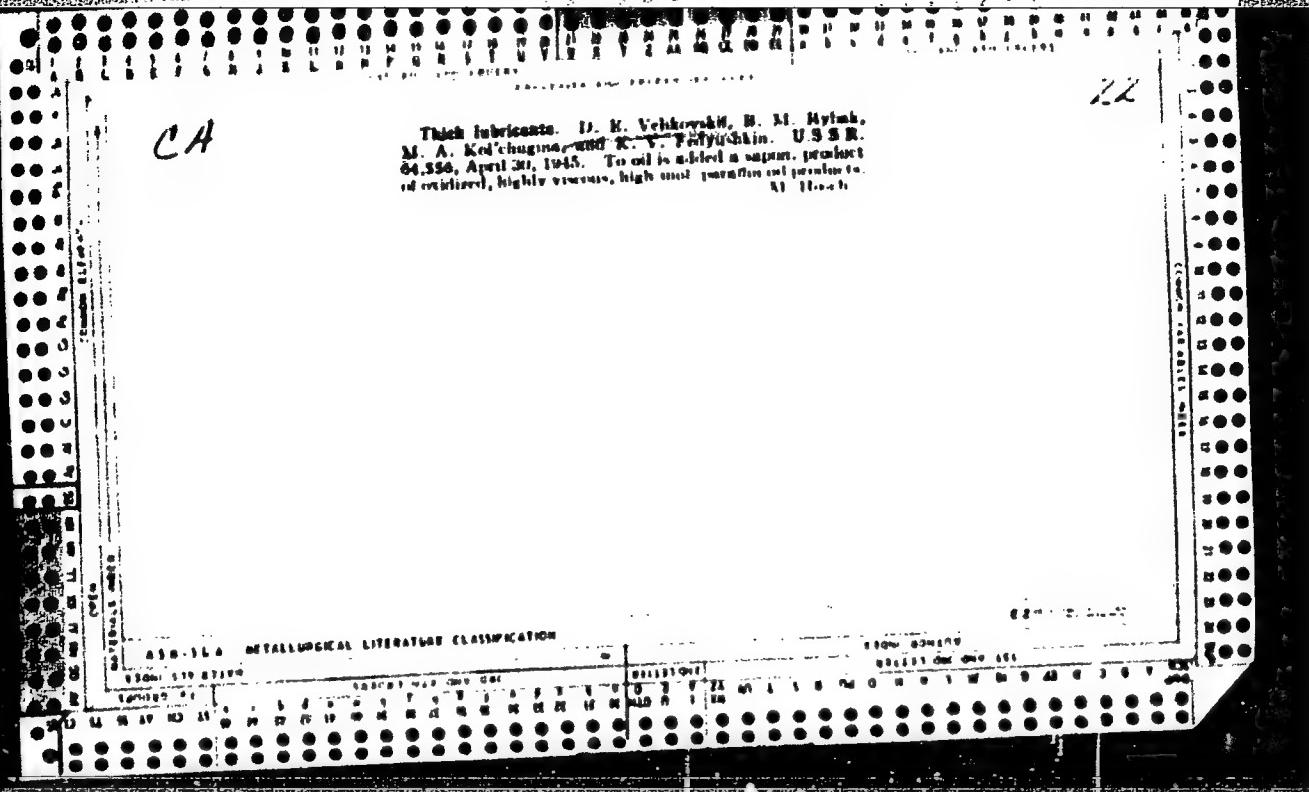
Variety of lubricating conditions and influences of soap in mineral oil. D. S. Volkovskii (Sovm. Vses. Zinod. i Gidrokhim. Akad. Nauk SSSR, Tr. po Tekhnichesk. Metallovedenii, 1948, No. 308A).—In the case of a constant rotation, Δf_0 can be obtained by a simple standard rheometer and viscometric data, provided by used as a rotating rheometer. A better result is obtained by determining the maximum value of internal friction, by means of a rotating heating rheometer, and the viscosity is determined by comparison with those obtained in a rotating rheometer. The viscosity and viscosity gradients remain obtained in a rotating rheometer, but the ratio Δf_0 times $>$ than obtained in a rotating rheometer. The mechanical equiv. of internal friction, τ_{fr} , may be calculated from Δf_0 if η_0 is oil (viscosity of oil at 20°C) and a temperature of measurement, in each case. The angle of shear of the soap solution is compared to a standard angle, in which the soap is added to a cylindrical tube, the ends of which are closed, and the tube is immersed in oil. Lubricating conditions are considered to be particularly suitable for the use of calcium soaps (soaps which have different salts and soaps); the same applies. In the case of magnesium is particularly favourable at the present of initial temperature. Confirmation of this is found by the fact that in traction, the soap lubricated by calcium. For calcium the mechanical equiv. of internal friction is in direct relation to the content of Ca soap and of H_2O .
R. B. C.

ABR-1A METALLURGICAL LITERATURE CLASSIFICATION

VELIKOVSKY, A. S.

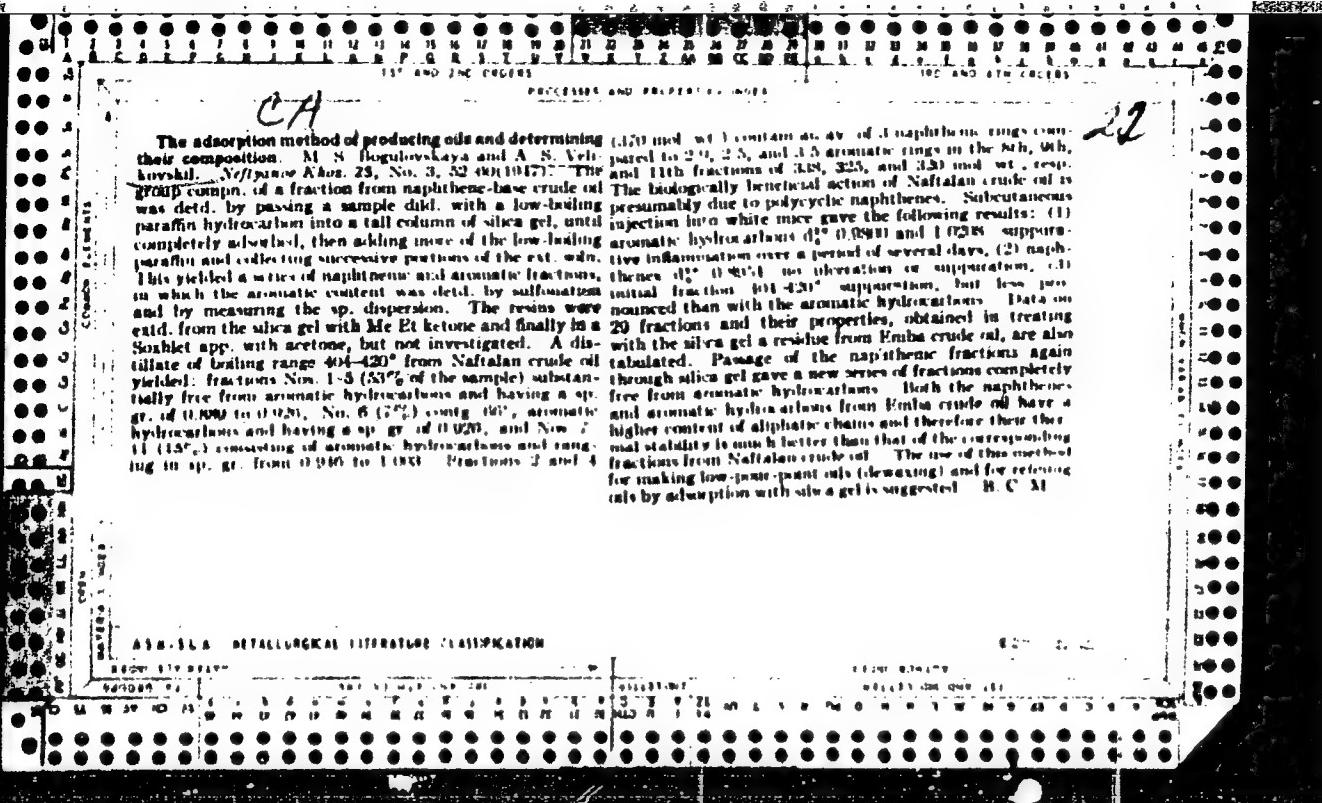
Petroleum in the USSR. Moskvo, Gos. nauch.-tekhn. izd-vo neftinoi i gornoi sif-ry, 1945. 147 p. (Sovremenaiia neftianaia tekhnika; posobie dlia vychesnit' kvalifikatsii inzhenerov neftianaia tekhniki; posobie dlia pozyshchenija kvalifikatsii inzhenerov neftinoi promyshlennosti) (50-23440)

TN870.6.R8V4



*Br. Ab.**B1-2, Fuel, Gas, Tar,
Mineral Oils*

Formation of sulphur and sulphur compounds in crude oils. E. P. Rudakova and A. S. Volkovskiy (Nef. Khim., 1947, No. 6, 49-54). — H_2S is passed at room temp. through layers of catalysts, i.e., H_3PO_4 , SiO_2 gel, and natural clay, impregnated with characteristic hydrocarbons (paraffins: $n-C_4H_{10}$, $C_{10}H_{22}, CH_3CH_2CH_2CH_3$, and lignite fraction of Grozny oil; olefines: polymers of C_4H_8 and C_5H_8 ; aromatics: C_6H_6 and $PhMe$). S compounds formed were analyzed by the method of Faragher *et al.* (cf. B., 1929, 77). H_3PO_4 promotes the interaction of H_2S and olefines to give mercaptans and other S compounds, particularly "residual S". Free S is not formed. Paraffins and aromatics are sulphurized in presence of SiO_2 gel and natural clay, giving mainly residual S. No interaction with H_2S in presence of H_3PO_4 occurs, paraffins giving cryst. S. In absence of hydrocarbons, H_2S when passed through the catalysts yields only traces of free S.
H. B.



CA

Conditions of the formation of sulfur compounds and sulfur in crude oils. B. F. Rudakova and A. S. Velikovskii. *Neftegaz. Khoz.* 25, No. 6, 19-31 (1971). An attempt was made to verify the hypothesis that S compounds have been formed in earth strata at substantial depths by the action of H_2S which is oxidized to S. n -Heptane, 2,2,4-trimethylpentane, benzene, toluene, and unsatd. polymers derived from butylenes were treated with H_2S at ordinary temp. In the presence of various catalysts. In every instance, the sulfurized products were analyzed by the Faragher method. With H_3PO_4 -kieselguhr catalyst, the unsatd. polymers form mercaptans and also more complex S compounds but no elementary S, while the satd. and aromatic hydrocarbons do not react with H_2S to an appreciable extent. With Russian clays and silica gel as catalysts, chiefly complex S compounds are formed. In the sulfurization of satd. hydrocarbons, cryst. S is deposited on the catalyst. It is established that H_2S oxidation to S in substantial amt. occurs only when hydrocarbons are present along with clay. This explains why S often is found together with oil in petroleum deposits. (11 references.)

Bruno C. Martini

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CA

22

Use of the adsorption method in determining the chemical composition of straight-run gasoline and kerosene. A. S. Velykovich, S. N. Pavlova, P. S. Gofman, and Z. V. Dralitskaya. *Neftegaz. Khoz.* 23, No. 9, 30-9 (1947). The sept. of artificial binary and ternary mixts. of hydrocarbons and of straight run gasoline and kerosene into aromatic and nonaromatic hydrocarbons by passage through a column packed with silica gel gives results comparable to those obtained by treatment with H_2SO_4 . With an aromatic content as high as 20%, only 25-28 g. of silica gel is needed to obtain 3.2-3.5 ml. of filtrate free from aromatic hydrocarbons. After these preliminary expts., columns contg. 1000 g. and 150 g. silica gel were set up for handling a charge of 300 and 40 ml., resp. The procedure used in packing them, feeding the charge and the desorbent liquid (alc. or H_2O), collecting the fractions, and regeneration of the silica gel is described in detail. From a mixt. of 2,2,4-trimethylpentane and toluene, 97.8% of the octane was recovered free from toluene. A gasoline from Stavropol crude oil having an aromatic content of 5.0% was sept. in the first pass into an aromatic-free fraction, a paraffin-naphthalene aromatic fraction which was passed a second time, and a mixt. of aromatic hydrocarbons and alc. The total recovery of aromatic-free product was 93.2% out of a possible 94.1%. In the nonaromatic fraction, the first portions were richer in paraffins and the final portions richer in naphthalenes (1.1028 and 1.4000, resp.), but the naphthalene-paraffin ratio of the total was the same as in the initial fraction.

Bruno C. Metzner

A. B. L. A. METALLURGICAL LITERATURE CLASSIFICATION

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859320007-6

VELIKOVSKIY, A.S.

ISSUE OF THE MATERIAL IN DETERMINING CHEMICAL COMPOSITION OF
THE POLYMERIC COMPOUNDS AND THEIR DERIVATIVES. VELIKOVSKIY, A.S.
SOCIETY KHM. DEDOLOVSKIE AND KAZAKOV. (VELIKOVSKIY, A.S.) IN ECU.
(SII Ind., Moscow). 1947. vol. 25, (97) (transl. Sov. ECU. 1970-1971).

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CIA-RDP86-00513R001859320007-6"

VELIKOVSKIY, A. S.

AID P - 1355

Subject : USSR/Chemistry

Card 1/1 Pub. 78 - 18/30

Authors : Kichkin, G. I and Velikovskiy, A. S.

Title : Influence of natural sulphur compounds on the oxidation of lubricating oils.

Periodical : Neft. khoz., v.32, #12, 60-63, D 1954

Abstract : The discussion concerns the anti-oxidation property of lubricating oils with and without sulphur compounds. The significance of aromatic hydrocarbon predominates over that of the sulphur compounds. The latter only supplement the anti-oxidizing action of aromatic hydrocarbon.
3 Russian references, (1940-1952). Two tables, 2 charts.

Institution: None

Submitted : No date

VULNERABILITY

Subject : USSR/Chemistry AID P - 2745
Card 1/1 Pub. 78 - 15/22
Authors : Kichkin, G. I. and Velikovskiy, A. S.
Title : Oxidation in a thin layer of naphthenic and aromatic hydrocarbons forming from lubricating oils
Periodical : Neft. khoz., 33, 7, 71-75, Jl 1955
Abstract : The oxidizing characteristics of thin layer lubricating oil residues have been tested on K. K. Papok's apparatus and analysed. It has been found that naphthenic and monocyclic aromatic hydrocarbons are most vulnerable, whereas bi- and tricyclic aromatic hydrocarbons withstand oxidation much better and therefore can be used as admixtures to naphthenic hydrocarbons to diminish their oxidation characteristics. Tables. Total References: 4, 2 Russian (1946-1952)
Institution : None
Submitted : No date

VELIKOVSKIY, A.S.; KOZLOV, A.L.

Precise measurement of pressure at the mouth of gas wells. Gaz. prom.
no. 6:1-5 Je '56. (MLRA 9:12)
(Gas, Natural)

VELIKOVSKIY, A.S.; YUSHKIN, V.V.

Gas condensate reservoirs. Gas.prom.no.10:1-6 O '56. (MIZA 9:10)
(Gas, Natural)

USSR/Physical Chemistry. Thermodynamics, Thermochemistry, B-8
Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour: Ref Zhur-Khimija, No 5, 1957, 14654

Abstract: (paraffins, aromatic, naphthenic) in methane and of
methane in these hydrocarbons up to the critical pres-
sure was carried out.

Card 2/2

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CIA-RDP86-00513R001859320007-6"

VALIKOVSKIY A.S.; YUSHKIN, V.V.

Condensate losses in gas-condensate pools. Gaz.prom.no.3:4-6
Ag '57. (MLRA 10-9)
(Condensate oil wells)

VELIKOVSKIY, A.S.; YUSHKIN, V.V.; KHUDYAKOV, O.F.; SAVVINA, Ya.D.; STEPANOVA, G.S.

Methods for studying gas-condensate fields. Trudy VNIIGAZ no.17:11-32
'62. (MIRA 15:12)
(Condensate oil wells)

VELIKOVSKIY, A.S.; STEPANOVA, G.S.

Negative volume of less volatile components in the mixtures of methane
with various hydrocarbons. Trudy VNIIGAZ no.17:232-252 '62.
(MIRA 15:12)

(Methane)

(Hydrocarbons)

VELIKOVSKIY, A.S.; STEPANOVA, G.S.; KHUDYAKOV, O.P.

Conditions causing the penetration of condensates into gas pipeline,
Trudy VNIIGAZ no.17:157-162 '62. (MIRA 15:12)
(Gas, Natural--Pipelines)

KHUDYAKOV, O.F.; VELIKOVSKIY, A.S.

Using linear models of a layer in the experimental study of gas recovery
in the water-process. Trudy VNIIGAZ no.17:75-98 '62. (MIRA 15:12)
(Condensate oil wells)

SAVVINA, Ya.D.; VELIKOVSKIY, A.S.

Phase equilibria in triple hydrocarbon systems. Trudy VNIIGAZ no.17:
197-202 '62.
(Hydrocarbons) (MIRA 15:12)
(Chemical equilibrium)

VELIKOVSKIY, A.S.; SAVVINA, Ya.D.

Constant factors in the composition of condensates. Trudy VNIIGAZ
no.17:270-278 '62. (MIRA 15:12)
(Condensate oil wells)

SAVVINA, Ya.D.; VELIKOVSKIY, A.S.

Effect of the structure of hydrocarbons on their behavior in binary
systems with methane. Trudy VNIIGAZ no.17:163-184 '62. (MIRA 15:12)
(Hydrocarbons) (Methane)

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